Application for Architectural Review Board

**** This application must be filled out completely and signed before submittals are placed on the ARB agenda.***

The purpose of Architectural Review Board shall be to two-fold; to develop architectural and design guidelines for the City of Ladue in accordance with section 110-70 and to apply those guidelines in reviewing projects within the City as to whether or not the project adheres to such guidelines.

APPLICANT INFORMATION

Name of Applicant: MATT ROTHGANGEL

Phone #: 314-603-0379

Email address of Applicant (for review comments): Matt@rothgangel.com

PROJECT PROPERTY INFORMATION

Address for proposed work: 28 DUNLEITH DR

If this ARB application is amending a project that is currently under construction, list permit #: NA

Zoning District: _____ Parcel ID # (St. Louis county tax record): _____

DESCRIPTION OF PROPOSED PROJECT: Outdoor SHED (10'X12') - PRE-CONSTRUCTED KIT FROM STUDIO SHED. INC.

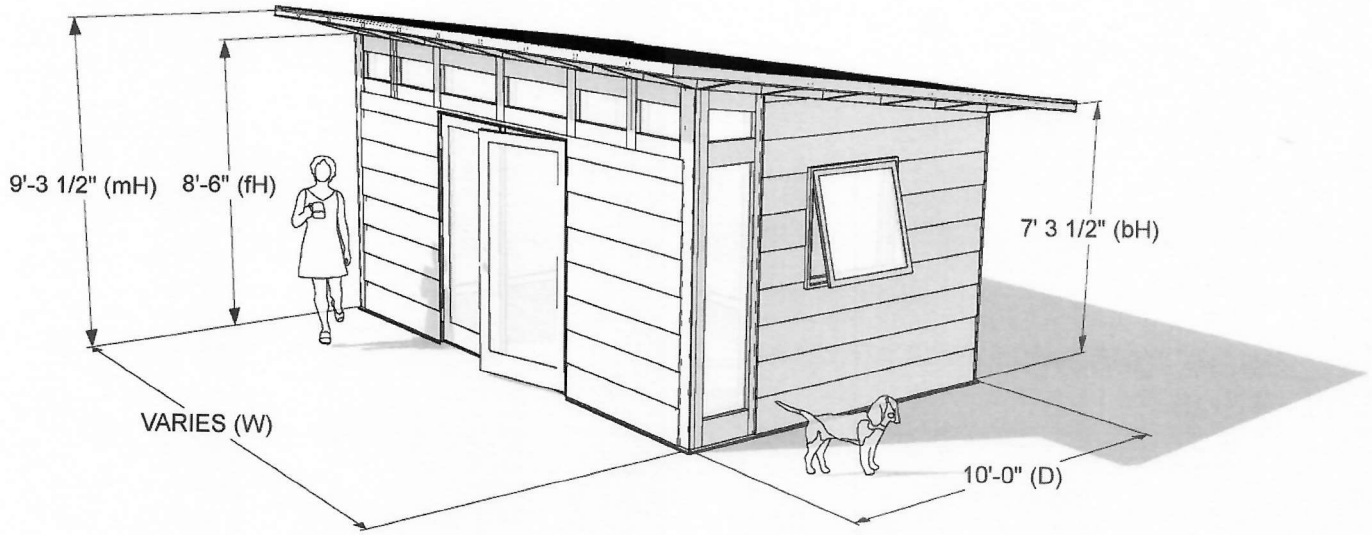
Additional Information:

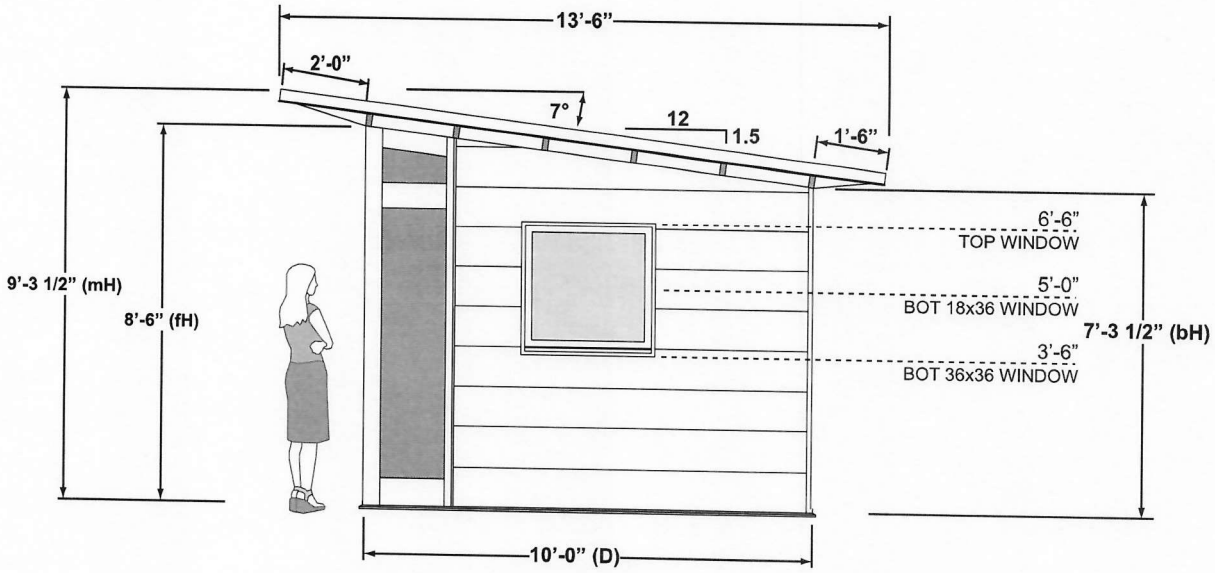
- Professionally sealed plans are not required for ARB review.
- Plans for projects involving alterations and repairs, which do not affect the outward appearance of a building, and existing decks, fences, window replacements and roofing shingle replacements shall not require approval of the Architectural Review Board.
- Revised plans with any changes predicated by the ARB will need to be submitted with the building permit application to the Department of Planning and Development with final trustee approval (if applicable.)
- Projects approved by ARB should be submitted for building permits within 180 days or the ARB approval may become void.

By signing this application, you acknowledge that by submitting an incomplete application, your petition will not be added to the meeting agenda.

X Matt Rothgangel Date: 2/22/23

** This application and review for City of Ladue building permitted purposes only. Please be aware of any additional covenants and indentures which may be recorded with your subdivision. Approval of this ARB proposal does not waive any other permit or other authorization by the City that may be required for you to fully complete your proposed project.*





(D) = SHED DEPTH | **(W)** = SHED WIDTH | **(mH)** = MAX ROOF HEIGHT | **(fH)** = FRONT WALL HEIGHT | **(bH)** = BACK WALL HEIGHT

10x SIGNATURE SERIES

2x4 wall construction

2x6 roof up to 30 psf snow load
*Available with R21 insulation (Lifestyle)

2x8 roof upgrade available for fee
*Available with R30 insulation (Lifestyle)

D	W	mH	fH	bH	FOOTPRINT SQ FT	INTERIOR FINISHED SQ FT	~WEIGHT (LBS)
10	10	9'-3 1/2"	8'-6"	7'-3 1/2"	100	86	2800
10	12	9'-3 1/2"	8'-6"	7'-3 1/2"	120	104	3360
10	14	9'-3 1/2"	8'-6"	7'-3 1/2"	140	123	3920
10	16	9'-3 1/2"	8'-6"	7'-3 1/2"	160	141	4480
10	20	9'-3 1/2"	8'-6"	7'-3 1/2"	200	178	5600

*Height dimensions DO NOT include foundation
*Dimensions rounded to nearest 1/2"
*Weights are approximate and will vary by shed configuration
*Finished interior area rounded to nearest Sq Ft

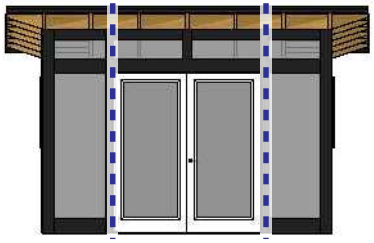
STUDIOSHED®

INSTALLATION SUPPORT: (888) 900-3933 x2 | M-F 9AM-5PM MST | installationsupport@studioshed.com **DATE:** 11/28/2022

Exterior Finishes

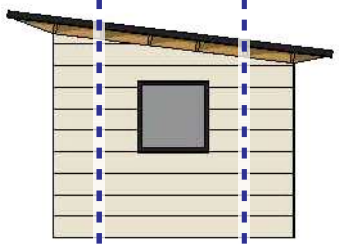
SCALE: 1/8 = 1'-0"

F27L-W2A F72-B F27R-W2B



FRONT ELEVATION

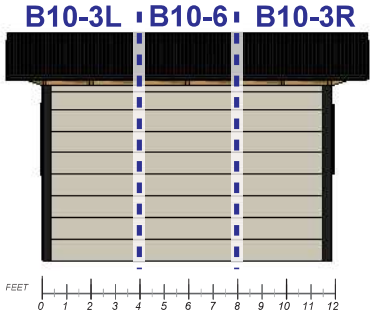
R2 R1-36C R3



RIGHT ELEVATION

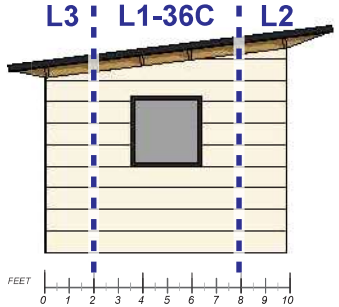
SIDING, EAVE, DOOR, AND FLOORING COLORS TBD

B10-3L B10-6 B10-3R



BACK ELEVATION

L3 L1-36C L2



LEFT ELEVATION

ROOF METAL:
GALVALUME
DARK BRONZE

FASCIA:
N/A

EAVES:
STANDARD
NATURAL STAIN

SIDING:
LAP
COBBLE STONE

DOORS:
72" FULL LITE FIBERGLASS - D72FL-LHO-TBZ
ARCTIC WHITE

TRIM:
CLEAR ANODIZED
DARK BRONZE

WINDOWS:
MARVIN ESSENTIALS
EBONY FIBERGLASS

FLOORING:
MOHAWK
KNOTTED CHESTNUT

INTERIOR:
ELECTRICAL PACKAGE

INSULATION:
R: R-21 BATT (STUDIO SHED)
W: R-15 BATT (STUDIO SHED)
F: N/A

10x12 SIGNATURE

120 SF

ADDRESS:
28 Dunleith Dr
St. Louis MO 63124

ORDER:
16397

Signature: _____ Date: _____

CUSTOMER:
HANAWAY

SHELL INSTALLATION:
DIY

FOUNDATION:
TBD
Concrete

INTERIOR INSTALLATION:
DIY

#28

DUNLIETH

BUTTERWORTH LANE 40' W.

CLAYTON SURVEYING & ENGINEERING COMPANY
725 Old Ballas Road, St. Louis, Mo. 63141

This is to certify that we have, on May 10, 1976, by order of D. R. Construction Co., made a Survey of the Improvements on Lot 26 of "Dunlei

28 Dunleith Drive Existing Property Pictures

28 Dunleith Drive Existing Property Pictures

CONCRETE SLAB GENERAL NOTES:

FOUNDATIONS ARE DESIGNED WITHOUT AN ENGINEER'S SOIL INVESTIGATION. THE DESIGN CRITERIA IS ASSUMED FOR PURPOSES OF FOUNDATION DESIGN.

FOOTINGS:

DESIGN OF FOOTINGS IS BASED ON MAXIMUM ALLOWABLE BEARING PRESSURE: **1500 PSF**
BEAR ON THE NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.

REINFORCED CONCRETE:

DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 332 "REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION." CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE."

STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

INTENDED USE	F'C, PSI 28 DAY	MAX W/C RATIO	MAXIMUM AGGREGATE	SLUMP, INCHES (+/- 1")	ENTRAINED AIR, PERCENT (+/- 1.5%)	CEMENT TYPE	ADMIXTURES, COMMENTS
SLAB ON GRADE	2,500	0.45	3/4" STONE	4	3	I/II	

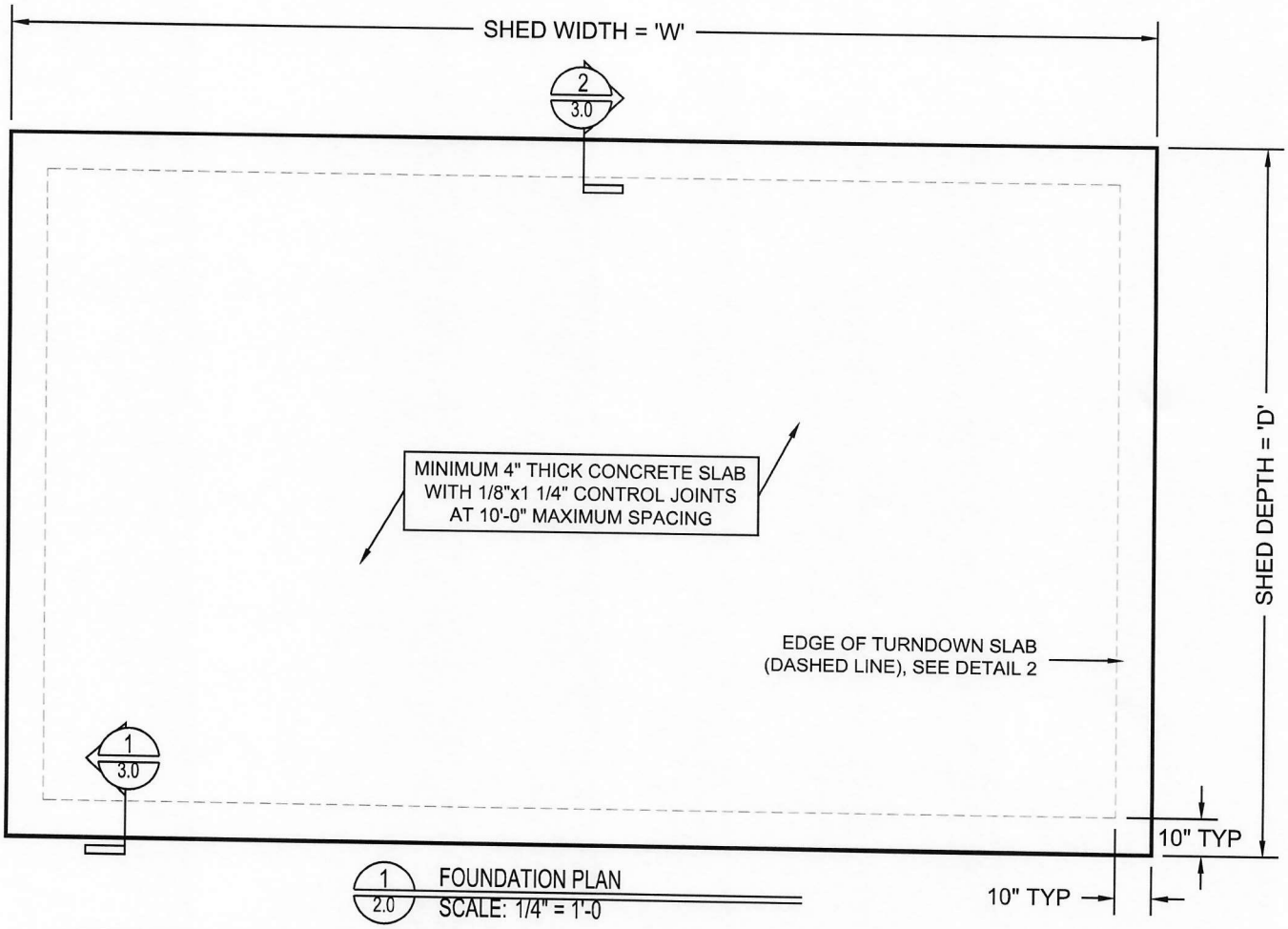
DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315-5 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

REINFORCING BARS SHALL CONFORM TO ASTM A615-04A, GRADE 60, EXCEPT TIES OR BARS SHOWN TO BE FIELD-BENT, WHICH SHALL BE GRADE 40.

BARS TO BE WELDED SHALL CONFORM TO ASTM 706-04A.

EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: **3"**
EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS: **2"**
#5 BAR, W31 OR D31 WIRE, AND SMALLER: **1-1/2"**
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS: #11 BARS AND SMALLER: **3/4"**



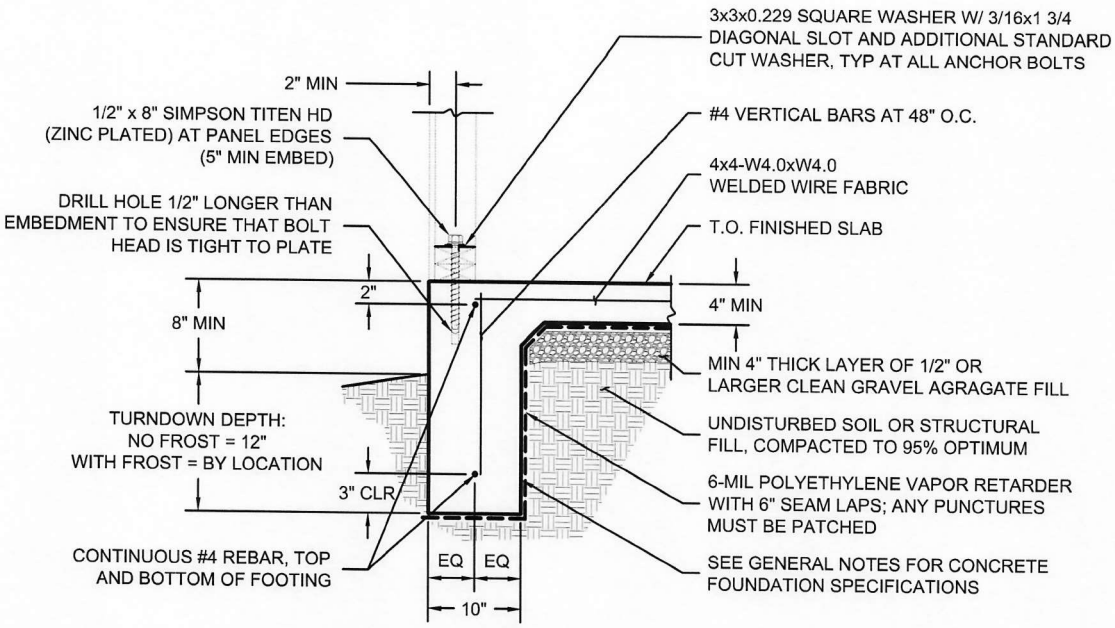
1 / 2.0 FOUNDATION PLAN
SCALE: 1/4" = 1'-0

6x SHED SLAB SIZE		
SHED SIZE (DxW)	'D'	'W'
6' x 8'	6'-0"	8'-0"
6' x 10'	6'-0"	10'-0"
6' x 12'	6'-0"	12'-0"
6' x 14'	6'-0"	14'-0"
6' x 16'	6'-0"	16'-0"

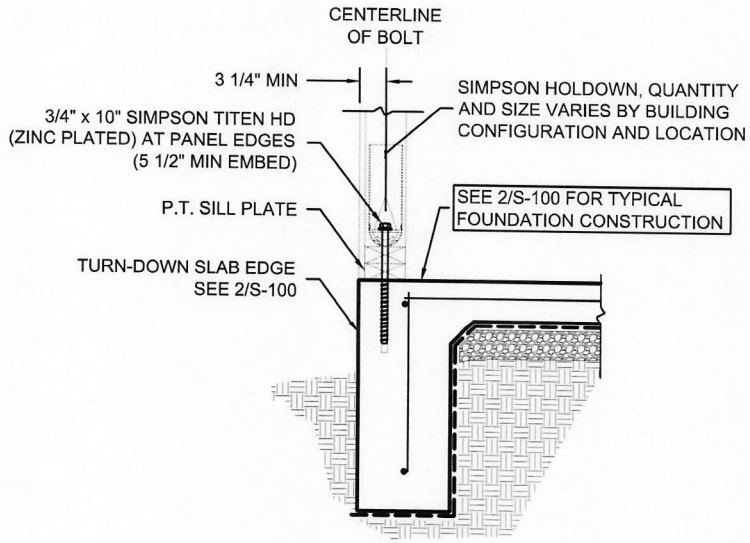
8x SHED SLAB SIZE		
SHED SIZE (DxW)	'D'	'W'
8' x 8'	8'-0"	8'-0"
8' x 10'	8'-0"	10'-0"
8' x 12'	8'-0"	12'-0"
8' x 14'	8'-0"	14'-0"
8' x 16'	8'-0"	16'-0"

10x SHED SLAB SIZE		
SHED SIZE (DxW)	'D'	'W'
10' x 8'	10'-0"	8'-0"
10' x 10'	10'-0"	10'-0"
10' x 12'	10'-0"	12'-0"
10' x 14'	10'-0"	14'-0"
10' x 16'	10'-0"	16'-0"
10' x 18'	10'-0"	18'-0"
10' x 20'	10'-0"	20'-0"

12x SHED SLAB SIZE		
SHED SIZE (DxW)	'D'	'W'
12' x 8'	12'-0"	8'-0"
12' x 10'	12'-0"	10'-0"
12' x 12'	12'-0"	12'-0"
12' x 14'	12'-0"	14'-0"
12' x 16'	12'-0"	16'-0"
12' x 18'	12'-0"	18'-0"
12' x 20'	12'-0"	20'-0"



1 / 3.0 TYP FOUNDATION SECTION
SCALE: 1" = 1'-0



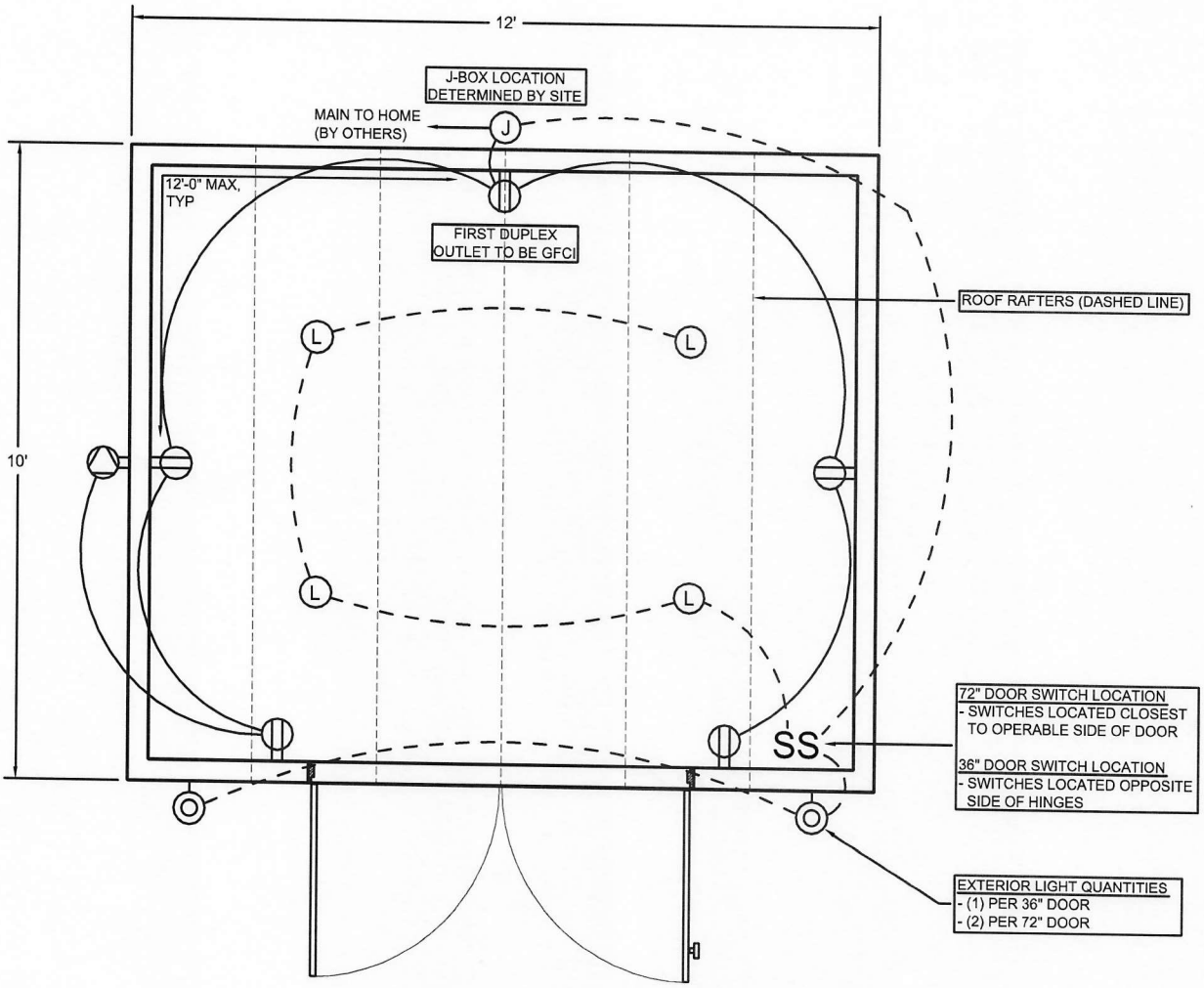
2 / 3.0 SECTION AT HOLDOWN
SCALE: 1" = 1'-0

FOUNDATION NOTES:

1. HOLDOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLDOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES. *(2305.5)*

3. ALL BOLT HOLES THROUGH WOOD SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED. *(11.1.2.2, 2012 NDS)*

LIFESTYLE ELECTRICAL SCHEMATIC



ELECTRICAL LAYOUT - SIGNATURE 10x12 MODEL

(J) QTY: 1 SUB-PANEL	QTY: 5 DUPLEX RECEPTACLE	(L) QTY: 4 RECESSED 3" LED WITH CANISTER	QTY: 1 EXTERIOR DUPLEX RECEPTACLE (WITH COVER)
S QTY: 2 SINGLE-POLE SWITCH	QTY: 1 GFCI DUPLEX RECEPTACLE	QTY: VARIES EXTERIOR LIGHT FIXTURE	15 AMP WIRING (DASHED LINE) / 20 AMP WIRING

*Typical layout shown with centered 72" door. Component and wiring layout varies by door(s) type, door(s) location, door(s) quantities and Vistalite window placement. Recommended bulbs: 160 Watts - (4) 10w CFL.

ELECTRICAL GENERAL NOTES:

1. TO RUN WIRING BETWEEN PANELS, DRILL (1) 1/2" Ø HOLE THROUGH STUDS AT 12" O.C. FROM B.O. SILL PLATE
2. JUNCTION BOX INSTALLED AT 4'-6" FROM B.O. PANEL TO B.O. BOX
3. OUTLETS INSTALLED 12" A.F.F. TO BOTTOM OF BOX
4. EXTERIOR LIGHTS INSTALLED 6'-4" AFF TO MOUNTING HOLE
5. 20 AMP AFCI/GFCI CIRCUIT BREAKER IS PROVIDED TO TAKE PLACE OF NEEDED GFCI RECEPTACLE

STUDIO SHED®

** IMPORTANT **

SAFETY IS YOUR #1 RESPONSIBILITY. ALWAYS WEAR TASK APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SUCH AS OSHA-APPROVED GLASSES, GLOVES, WORK BOOTS, ETC.

CONTACT InstallationSupport@studioshed.com FOR QUESTIONS

RECOMMENDED TOOLS:

- ☐ INSTALLATION DRAWINGS
  - ☐ SEE ATTACHMENTS TO THE 'STUDIO SHED SHIPMENT UPDATE' EMAIL

- ☐ DRILL DRIVER
  - ☐ WOOD DRILL BIT SET
  - ☐ 3/4' PADDLE BIT
- ☐ IMPACT DRIVER
  - ☐ 1/4" NUT DRIVER BIT
  - ☐ #2 PHILLIPS BIT
  - ☐ #3 PHILLIPS BIT
  - ☐ T25 TORQUE BIT
  - ☐ T30 TORQUE BIT
- ☐ 3/8" CROWN STAPLER
  - ☐ T-50 ROOF STAPLES, SEE PROVIDED SHOPPING LIST
- ☐ PNEUMATIC FRAMING NAILER
  - ☐ 3" 16d NAILS, SEE PROVIDED SHOPPING LIST
  - ☐ 2 3/8" 8d NAILS, SEE PROVIDED SHOPPING LIST
- ☐ OSCILATING MULTI TOOL
- ☐ COMPRESSOR
- ☐ 10 oz CAULK GUN
- ☐ UTILITY KNIFE
- ☐ HAMMER DRILL (CONCRETE SLABS ONLY)
  - ☐ 1/2" MASONRY BIT
  - ☐ 3/4" MASONRY BIT MAY BE REQUIRED, SEE PERMIT PLAN SET
- ☐ COMPOUND MITER SAW
- ☐ GENERAL CARPENTRY TOOLS
  (6-ft LEVEL, TIN SNIPS, HAMMER, MEASURING TAPE, CHALK LINES, PENCILS, SQUARE, ETC.)
- ☐ 6-FT LADDER MINIMUM

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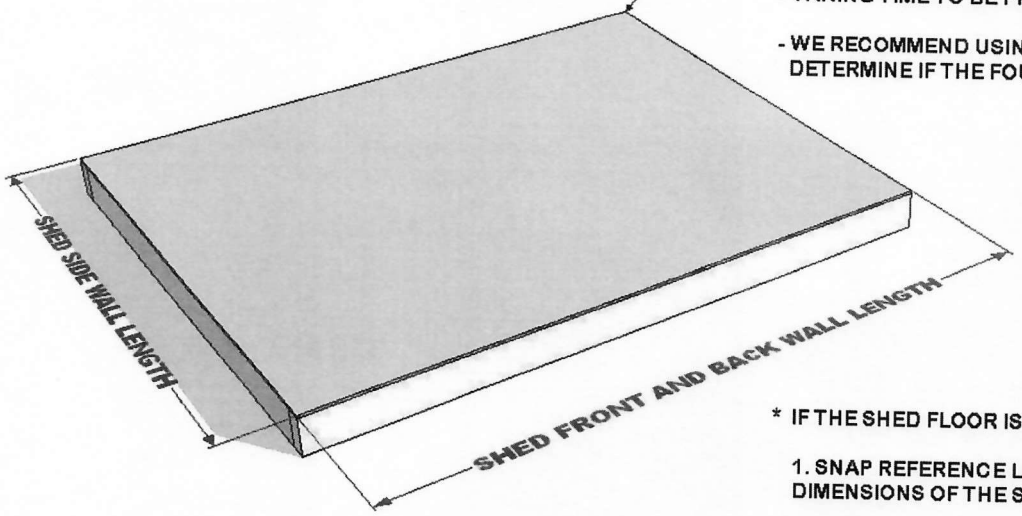
Fig 2a:



FLOOR PREP:

- FLOOR SHOULD BE BUILT TO THE EXACT DIMENSIONS OF SHED AND SHOULD BE SQUARE AND LEVEL.
- TAKING TIME TO BE PRECISE WILL SAVE YOU TIME LATER!
- WE RECOMMEND USING A LASER LEVEL TO ACCURATELY DETERMINE IF THE FOUNDATION IS LEVEL.

* IF THE SHED FLOOR IS LARGER THAN THE SHED:

  1. SNAP REFERENCE LINES OUTLINING THE PERIMETER DIMENSIONS OF THE SHED

  2. ENSURE LINES ARE PARALLEL AND SQUARE

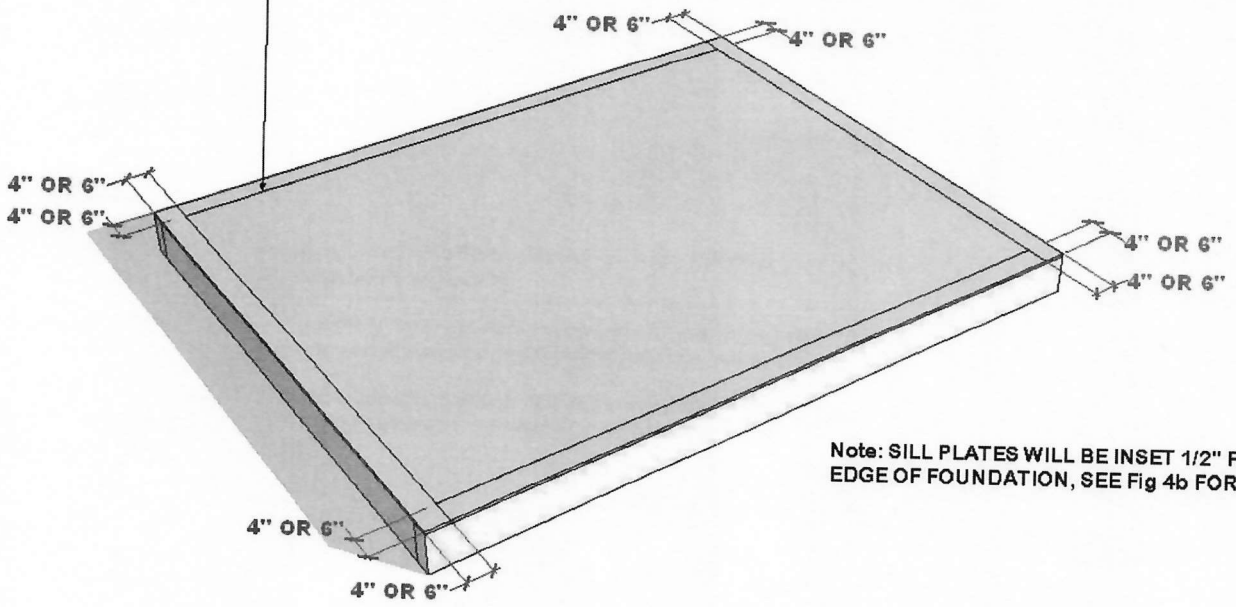
* IF YOU INTEND TO USE AN EXISTING FOUNDATION, ESPECIALLY ONE THAT IS NOT THE EXACT SIZE OF YOUR SHED, CONSULT WITH STUDIO SHED AS THIS MAY IMPACT TOTAL COST AND WARRANTY.

* FOUNDATION SHOULD BE MINIMUM 8" ABOVE ADJACENT GRADE

Fig 2b:

MARK SILL PLATE REFERENCE LINES USING A CHALK LINE AND TAPE MEASURE:

- IF SHED WALLS ARE 2x4 FRAMING - SNAP A LINE 4" IN FROM EDGE / PERIMETER OF SHED ON ALL SIDES
- IF SHED WALLS ARE 2x6 FRAMING - SNAP LINES 6" IN FROM EDGE / PERIMETER OF SHED ON ALL SIDES



Note: SILL PLATES WILL BE INSET 1/2" FROM EDGE OF FOUNDATION, SEE Fig 4b FOR DETAIL

Fig 3a:

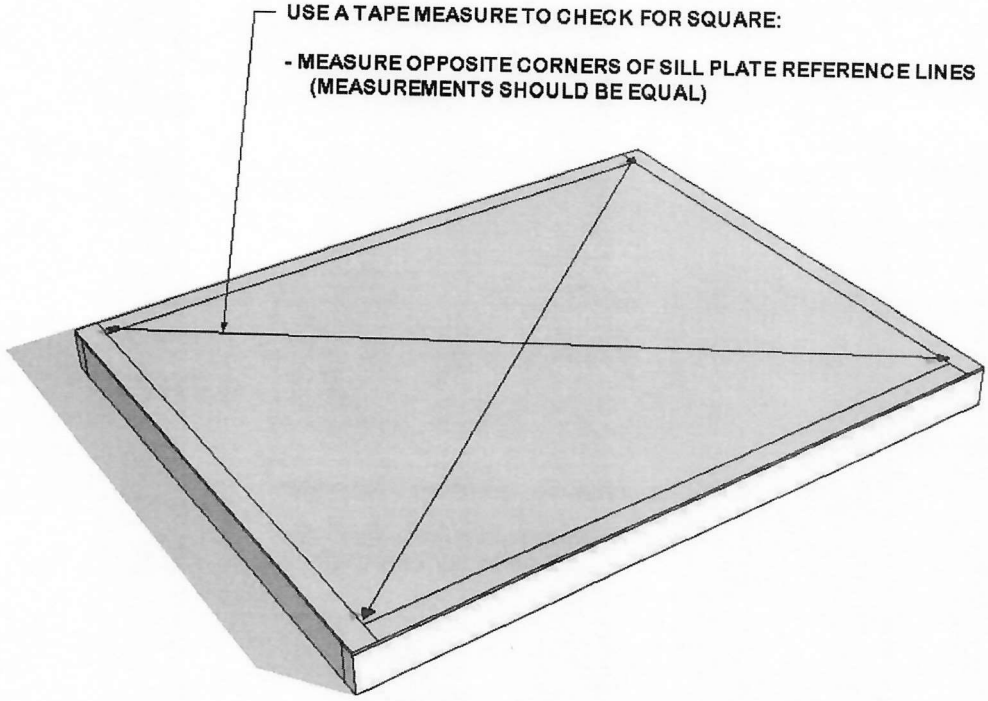

USE A TAPE MEASURE TO CHECK FOR SQUARE:
- MEASURE OPPOSITE CORNERS OF SILL PLATE REFERENCE LINES (MEASUREMENTS SHOULD BE EQUAL)

Fig 3b:

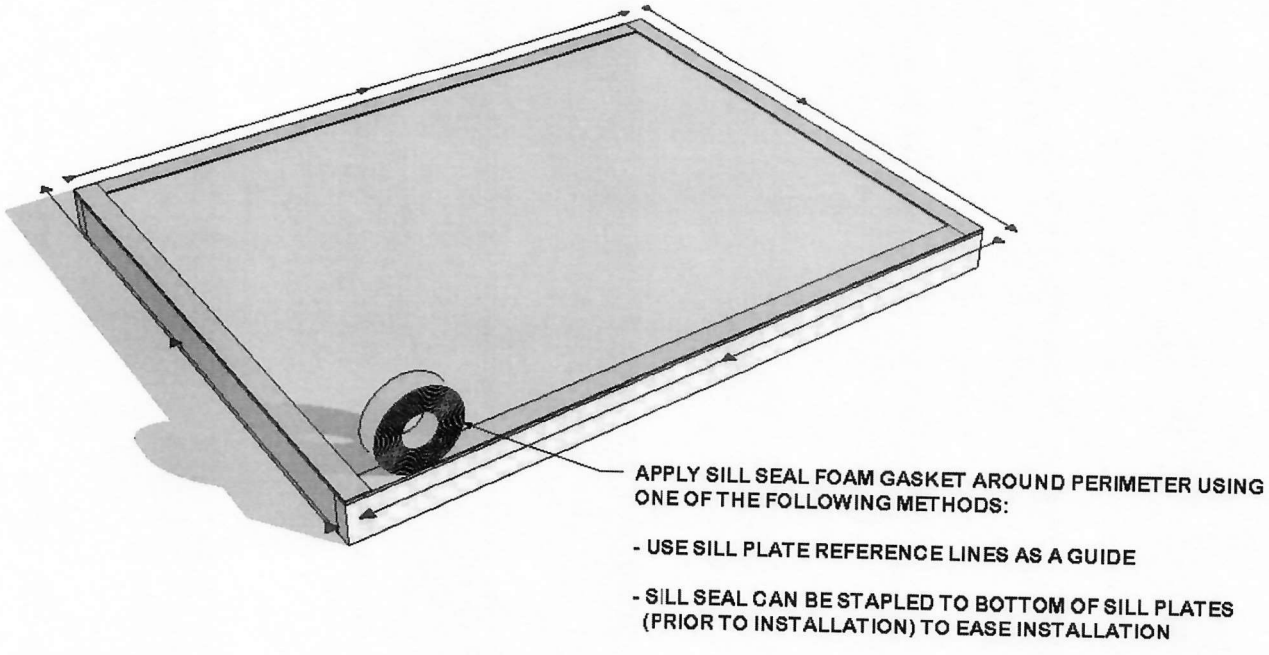

APPLY SILL SEAL FOAM GASKET AROUND PERIMETER USING ONE OF THE FOLLOWING METHODS:
- USE SILL PLATE REFERENCE LINES AS A GUIDE
- SILL SEAL CAN BE STAPLED TO BOTTOM OF SILL PLATES (PRIOR TO INSTALLATION) TO EASE INSTALLATION

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Fig 4a:

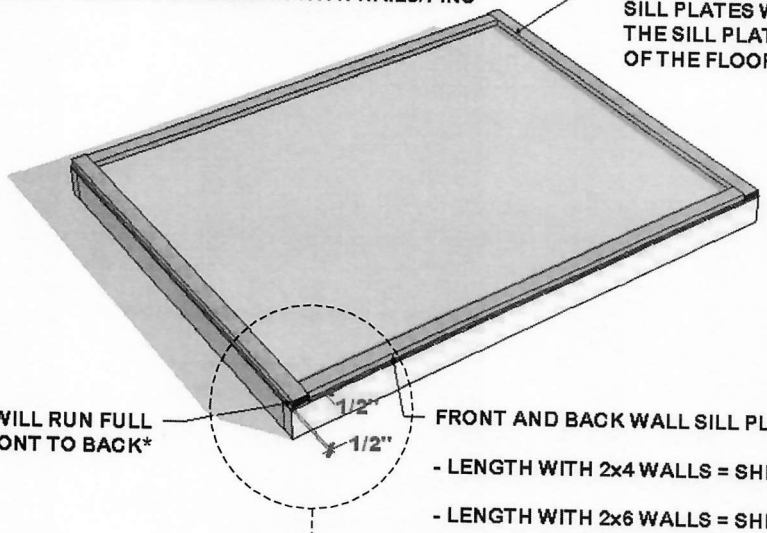
LOOSE FIT PRESSURE TREATED SILL PLATES:

- REFERENCE PROJECT INSTALLATION DRAWINGS FOR SILL PLATE SIZES

- SILL PLATE ENDS WILL BE ENGINEERED LUMBER, WITH ENDS PAINTED BLUE (COLOR MAY VARY - VERIFY MATERIAL IS LSL LUMBER)

- DO NOT FASTEN TO FLOOR WITH ANCHORS/HEADLOK SCREWS JUST YET, ALTHOUGH YOU MAY TACK THE SILL PLATE DOWN WITH NAILS/PINS

ALIGN THE INSIDE EDGE OF THE PRESSURE TREATED SILL PLATES WITH THE SILL PLATE REFERENCE LINES. THE SILL PLATE WILL BE IN-SET 1/2" FROM THE EDGE OF THE FLOOR / PERIMETER OF THE SHED.



SIDE WALL SILL PLATES WILL RUN FULL LENGTH FRONT TO BACK

FRONT AND BACK WALL SILL PLATES SIT WITHIN SIDE WALL SILL PLATES:

- LENGTH WITH 2x4 WALLS = SHED WIDTH MINUS 8"

- LENGTH WITH 2x6 WALLS = SHED WIDTH MINUS 12"

Fig 4b:

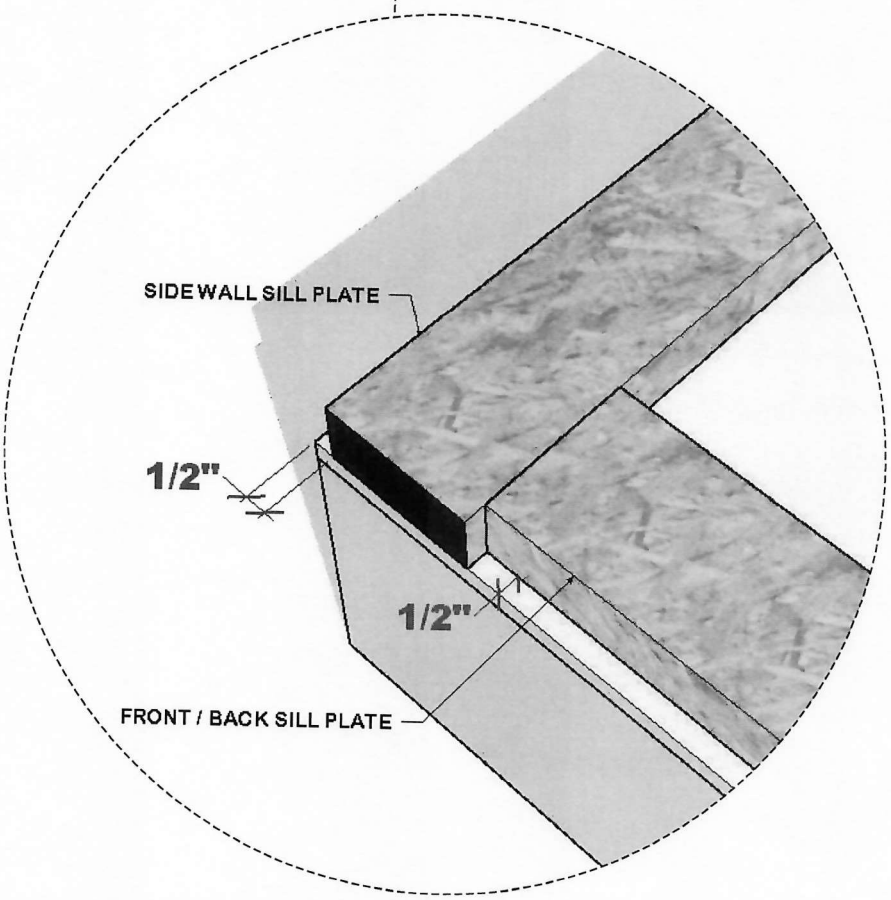


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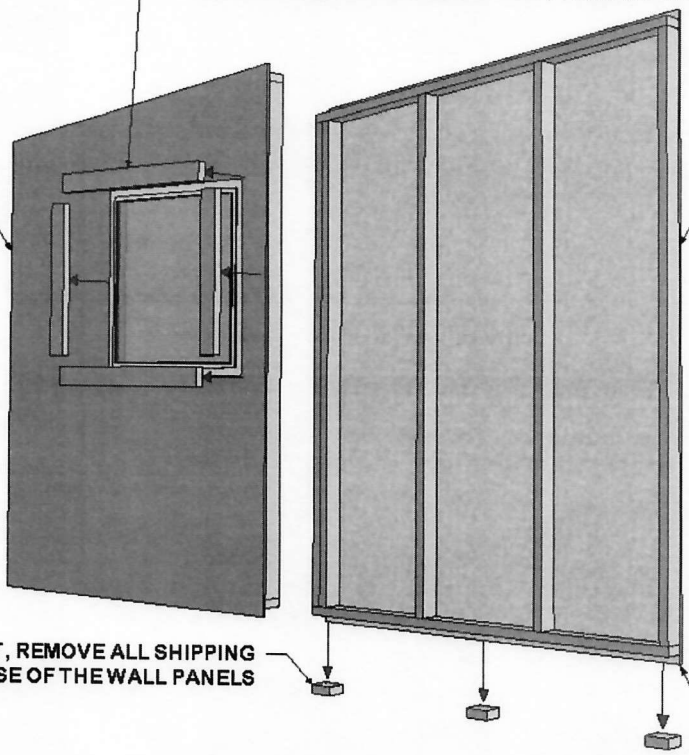
Fig 5a:

PREP WALLS FOR INSTALLATION:

- USING A T25 TORX BIT, REMOVE ALL SHIPPING BLOCKS FROM AROUND OPERABLE WINDOWS THEN USE SUPPLIED ZIP TAPE TO COVER ANY SCREW HOLES FROM ATTACHING THE SHIPPING BLOCKS
-DO NOT APPLY ZIP TAPE TO BOTTOM FLANGE OF WINDOW AS THIS MAY TRAP WATER. TAPE SIDE FLANGES FIRST, THEN TAPE ALONG TOP FLANGE, ON TOP OF SIDE TAPE



OUTSIDE OF WALL PANEL SHOWN

INSIDE OF WALL PANEL SHOWN

- USING A T25 TORX BIT, REMOVE ALL SHIPPING BLOCKS FROM THE BASE OF THE WALL PANELS

HANDLE PANELS WITH CARE! DO NOT REST DIRECTLY ON GROUND! REMOVING SHIPPING BLOCKS WILL LEAVE 1 1/2" OF EXPOSED SHEATHING BELOW PANEL

Fig 5b:

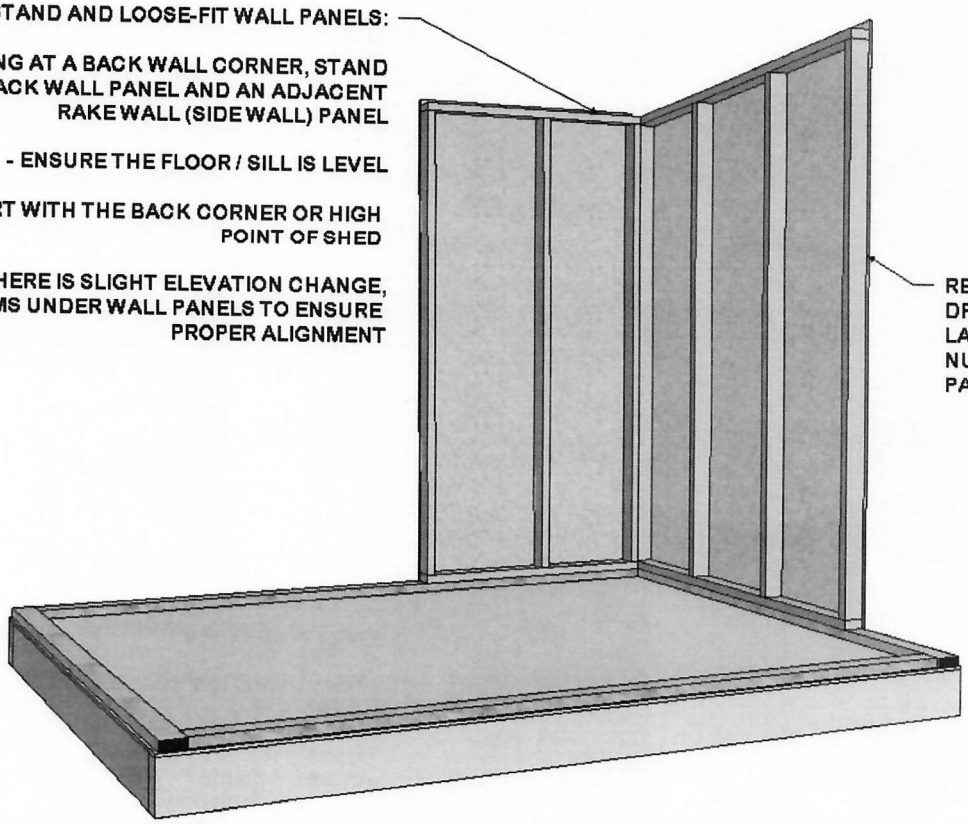
STAND AND LOOSE-FIT WALL PANELS:

- STARTING AT A BACK WALL CORNER, STAND A BACK WALL PANEL AND AN ADJACENT RAKE WALL (SIDE WALL) PANEL

- ENSURE THE FLOOR / SILL IS LEVEL

- START WITH THE BACK CORNER OR HIGH POINT OF SHED

- IF THERE IS SLIGHT ELEVATION CHANGE, USE SHIMS UNDER WALL PANELS TO ENSURE PROPER ALIGNMENT



REFERENCE PROJECT INSTALLATION DRAWINGS COVER SHEET FOR PANEL LAYOUT AND SKU NUMBERS. SKU NUMBERS WILL BE WRITTEN ON WALL PANELS

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Fig 6a:

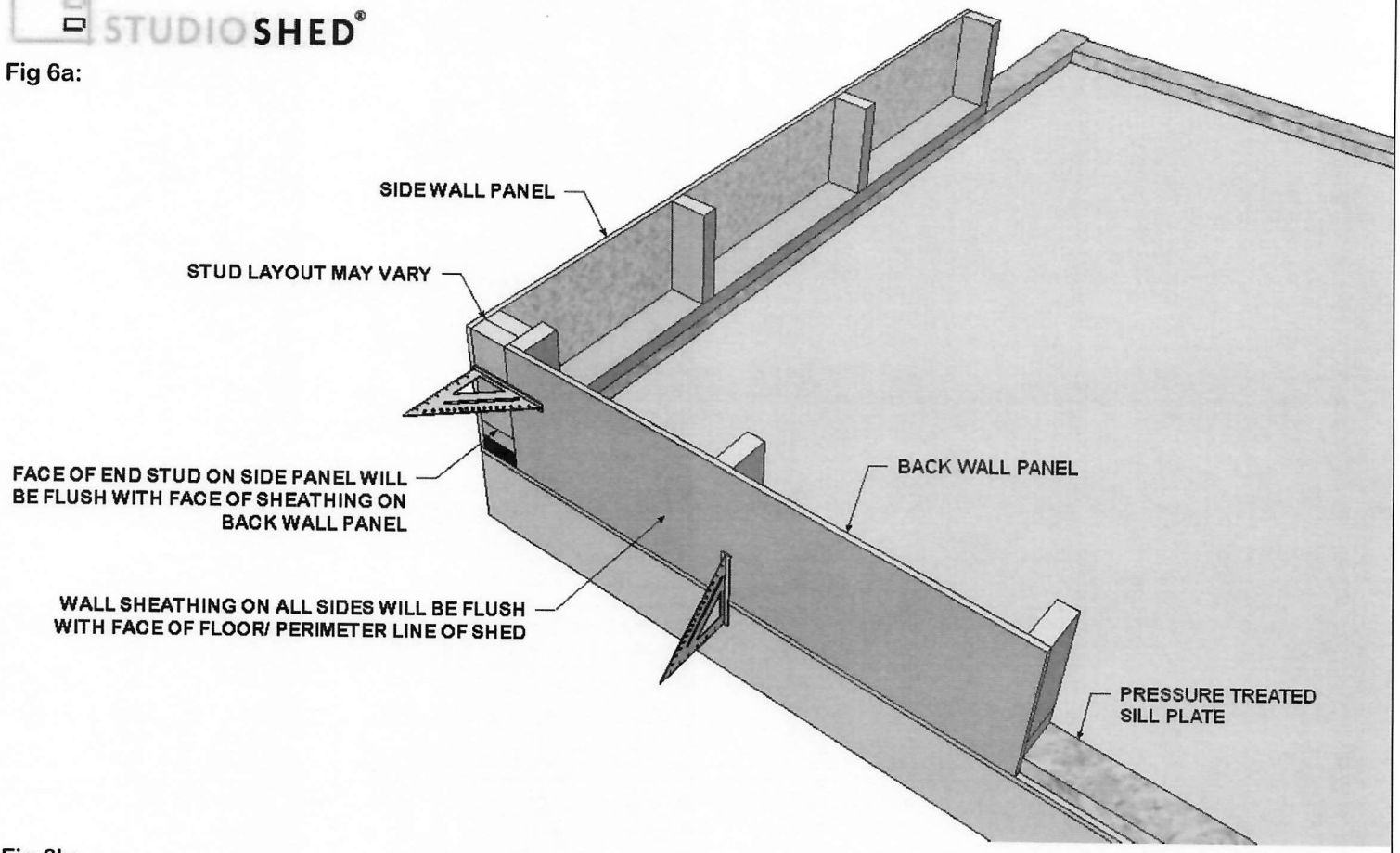
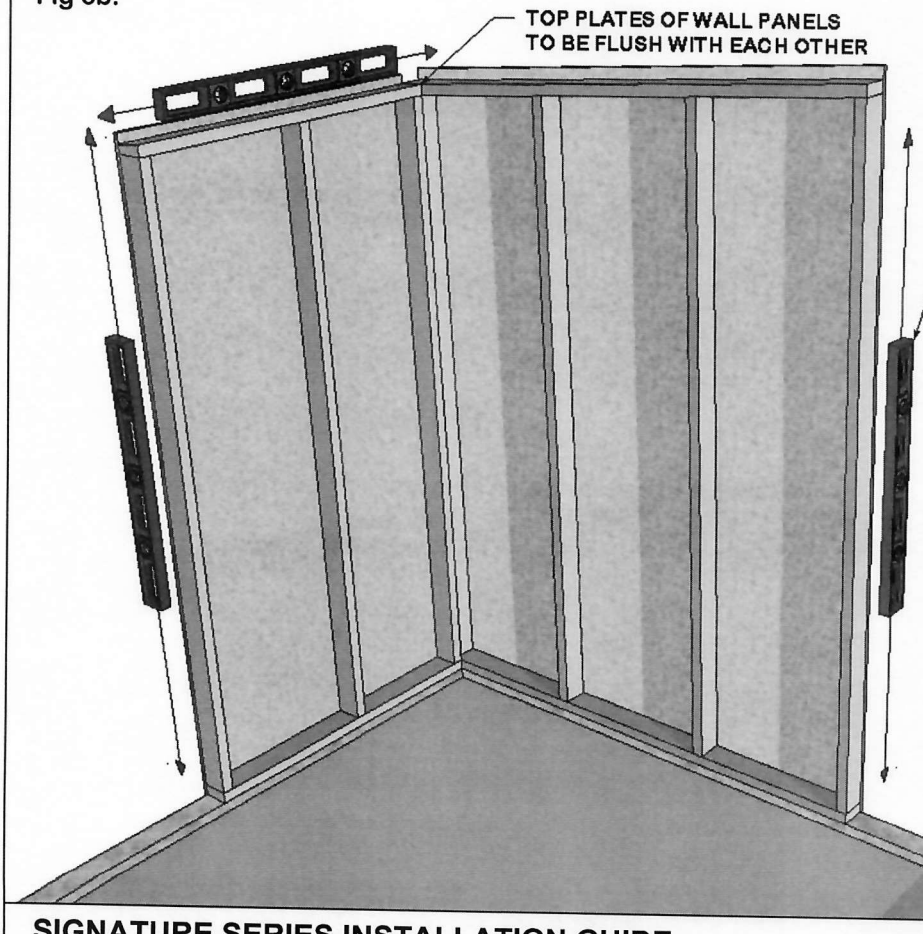


Fig 6b:



CHECK PANELS FOR LEVEL AND PLUMB:

- USING A CARPENTER'S LEVEL, ENSURE PANELS ARE LEVEL AND PLUMB PRIOR TO INSTALLING FASTENERS
- SHIM AS NEEDED BY PLACING SHIM IN-BETWEEN PRESSURE TREATED SILL AND BOTTOM OF WALL PANEL
- TAKE YOUR TIME, ACCURACY IS IMPORTANT!

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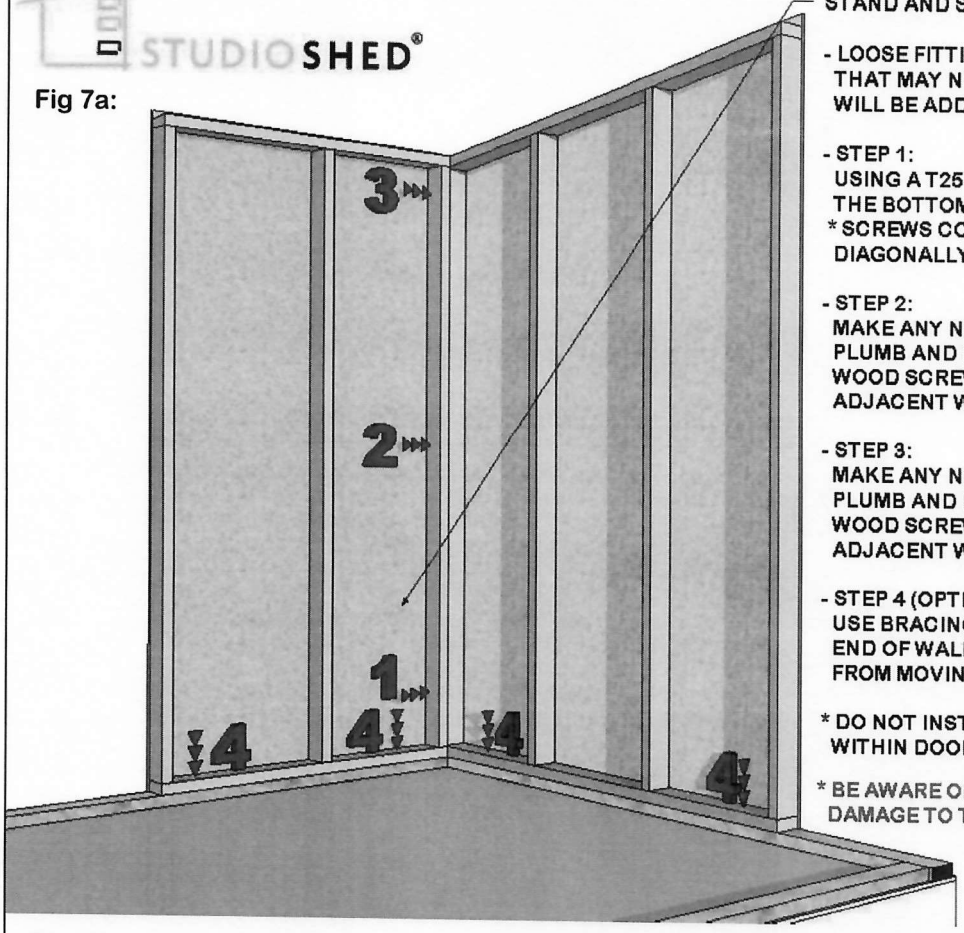
Fig 7a:



STAND AND SECURE WALL PANELS USING INITIAL TACK SCREWS:

- LOOSE FITTING THE PANELS WILL EASE ADJUSTMENTS THAT MAY NEED TO BE MADE LATER. ADDITIONAL FASTENERS WILL BE ADDED LATER ONCE WALL INSTALLATION IS COMPLETE

- STEP 1:
USING A T25 TORX BIT, INSTALL A 3" WOOD SCREW ~6" FROM THE BOTTOM OF WALL PANEL INTO THE ADJACENT WALL PANEL
* SCREWS CONNECTING PANELS AT CORNERS CAN BE INSTALLED DIAGONALLY IF REQUIRED.

- STEP 2:
MAKE ANY NECESSARY ADJUSTMENTS ENSURING PANELS ARE PLUMB AND FLUSH (FIG 6a + b) THEN INSTALL AN ADDITIONAL 3" WOOD SCREW IN THE MIDDLE OF THE WALL PANEL INTO THE ADJACENT WALL PANEL

- STEP 3:
MAKE ANY NECESSARY ADJUSTMENTS ENSURING PANELS ARE PLUMB AND FLUSH (FIG 5b) THEN INSTALL AN ADDITIONAL 3" WOOD SCREW ~6" FROM THE TOP OF WALL PANEL INTO THE ADJACENT WALL PANEL

- STEP 4 (OPTIONAL):
USE BRACING OR INSTALL A TEMPORARY 3" SCREW AT EACH END OF WALL PANEL INTO THE SILL PLATE TO KEEP WALLS FROM MOVING OR FALLING IN WINDY CONDITIONS

* DO NOT INSTALL ANY SCREWS OR ANCHORS IN SILL PLATE WITHIN DOOR OPENING

* BE AWARE OF WHERE THE SCREWS ARE GOING TO AVOID DAMAGE TO THE SHED (ESPECIALLY AROUND GLASS!)

Fig 7b:

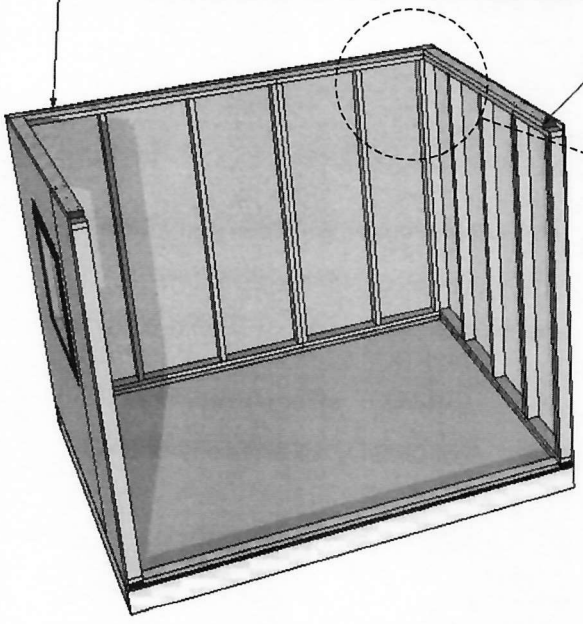
STAND AND LOOSE-FIT REMAINING BACK AND SIDE WALL PANELS:

- USE METHODS DESCRIBED IN FIG 6a-7a

- IN ADDITION, TO AID PULLING PANELS INTO ALIGNMENT, CLAMP TOP PLATES TO TOP OF WALL PANELS AND SHEATHING

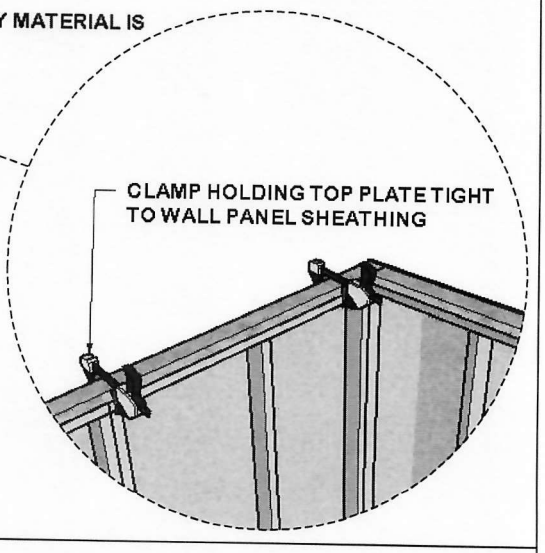
- FRONT AND BACK TOP PLATES WILL OVERLAP SIDE WALLS

- REFERENCE PROJECT INSTALLATION DRAWINGS FOR TOP PLATE LOCATIONS/ SIZES



ENDS OF ENGINEERED LUMBER TOP PLATES WILL BE PAINTED RED

*COLOR MAY VARY. VERIFY MATERIAL IS LVL LUMBER.



CLAMP HOLDING TOP PLATE TIGHT TO WALL PANEL SHEATHING

Fig 8a:

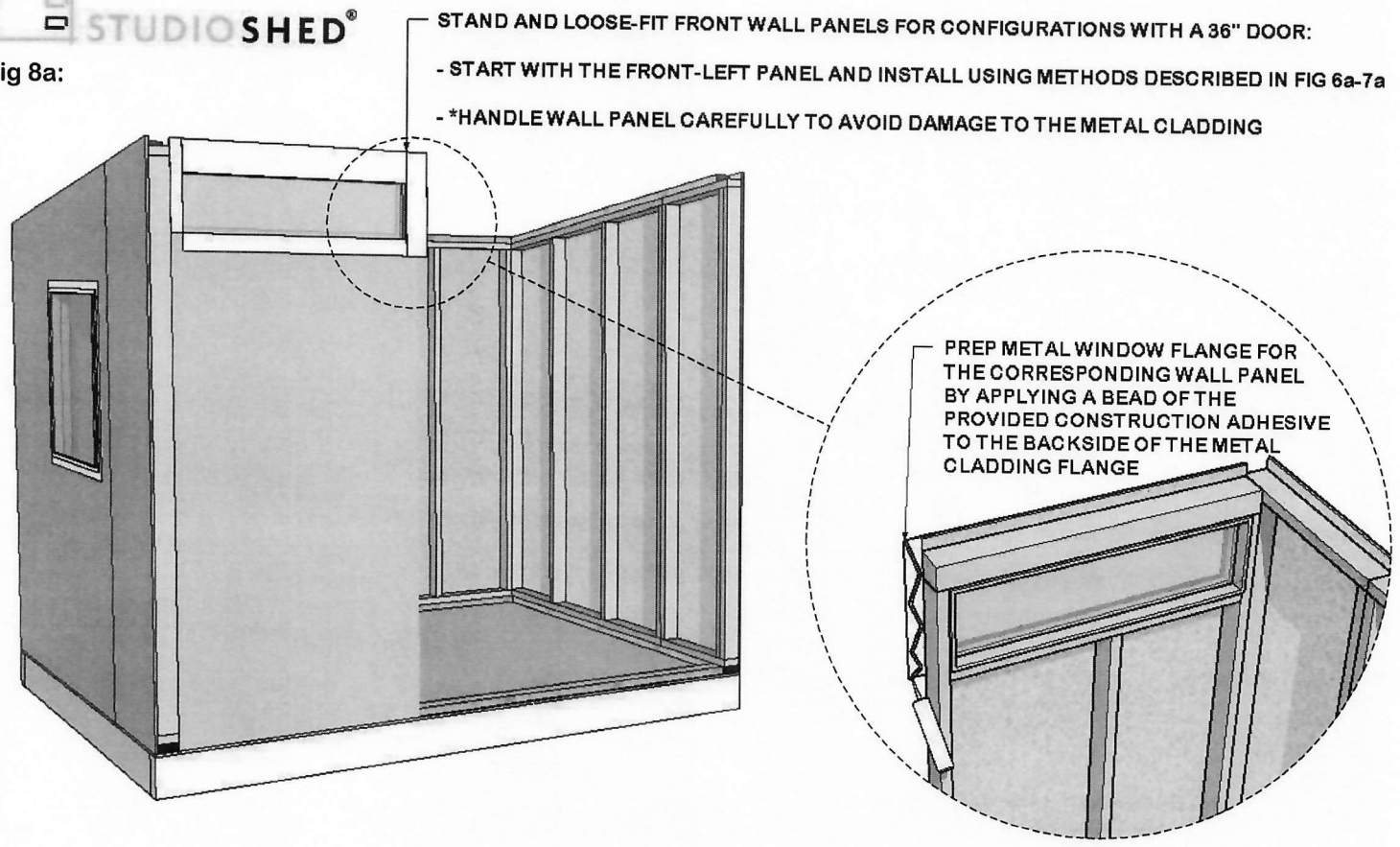

STAND AND LOOSE-FIT FRONT WALL PANELS FOR CONFIGURATIONS WITH A 36" DOOR:
- START WITH THE FRONT-LEFT PANEL AND INSTALL USING METHODS DESCRIBED IN FIG 6a-7a
- *HANDLE WALL PANEL CAREFULLY TO AVOID DAMAGE TO THE METAL CLADDING
PREP METAL WINDOW FLANGE FOR THE CORRESPONDING WALL PANEL BY APPLYING A BEAD OF THE PROVIDED CONSTRUCTION ADHESIVE TO THE BACKSIDE OF THE METAL CLADDING FLANGE

Fig 8b:

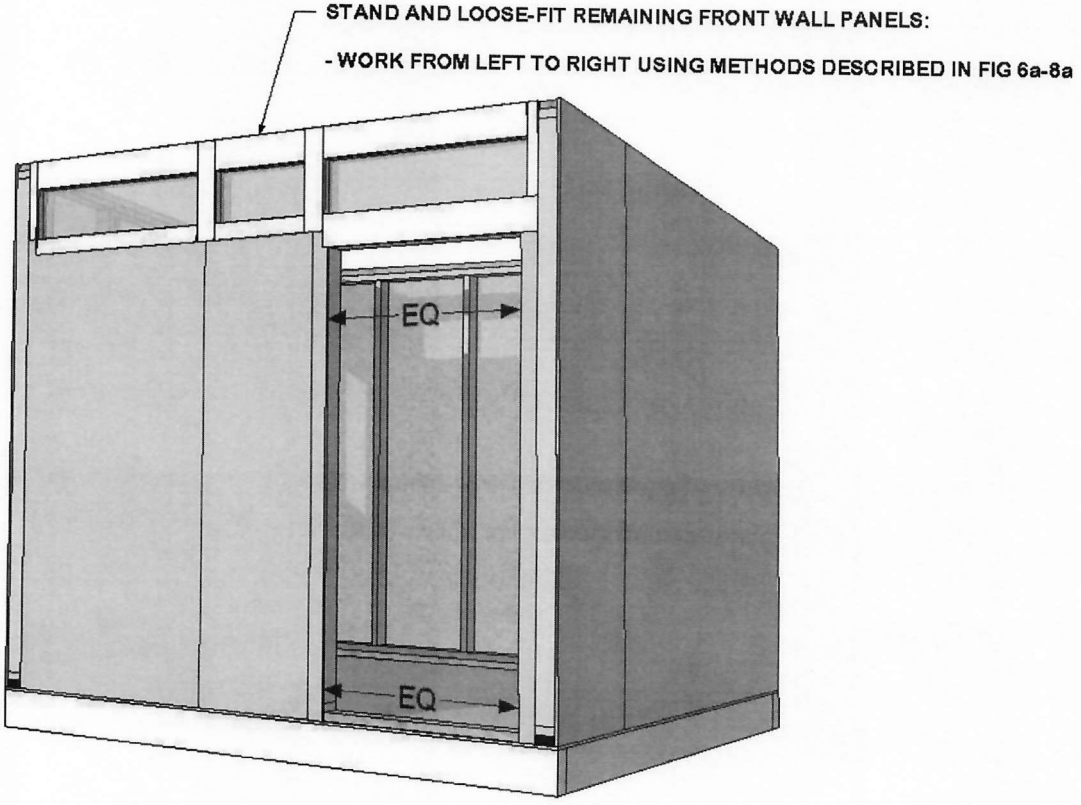

STAND AND LOOSE-FIT REMAINING FRONT WALL PANELS:
- WORK FROM LEFT TO RIGHT USING METHODS DESCRIBED IN FIG 6a-8a
EQ
EQ

Fig 9a:

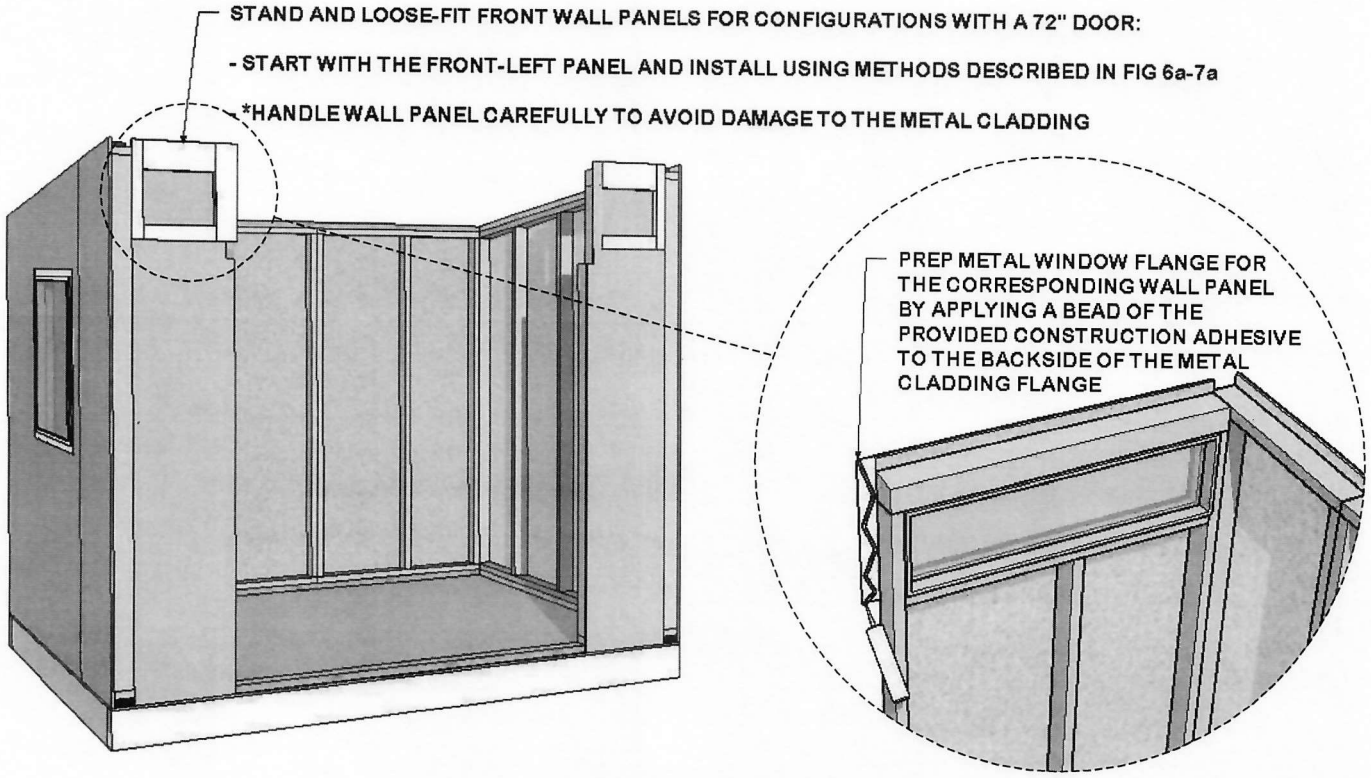

STAND AND LOOSE-FIT FRONT WALL PANELS FOR CONFIGURATIONS WITH A 72" DOOR:
- START WITH THE FRONT-LEFT PANEL AND INSTALL USING METHODS DESCRIBED IN FIG 6a-7a
*HANDLE WALL PANEL CAREFULLY TO AVOID DAMAGE TO THE METAL CLADDING
PREP METAL WINDOW FLANGE FOR THE CORRESPONDING WALL PANEL BY APPLYING A BEAD OF THE PROVIDED CONSTRUCTION ADHESIVE TO THE BACKSIDE OF THE METAL CLADDING FLANGE

Fig 9b:

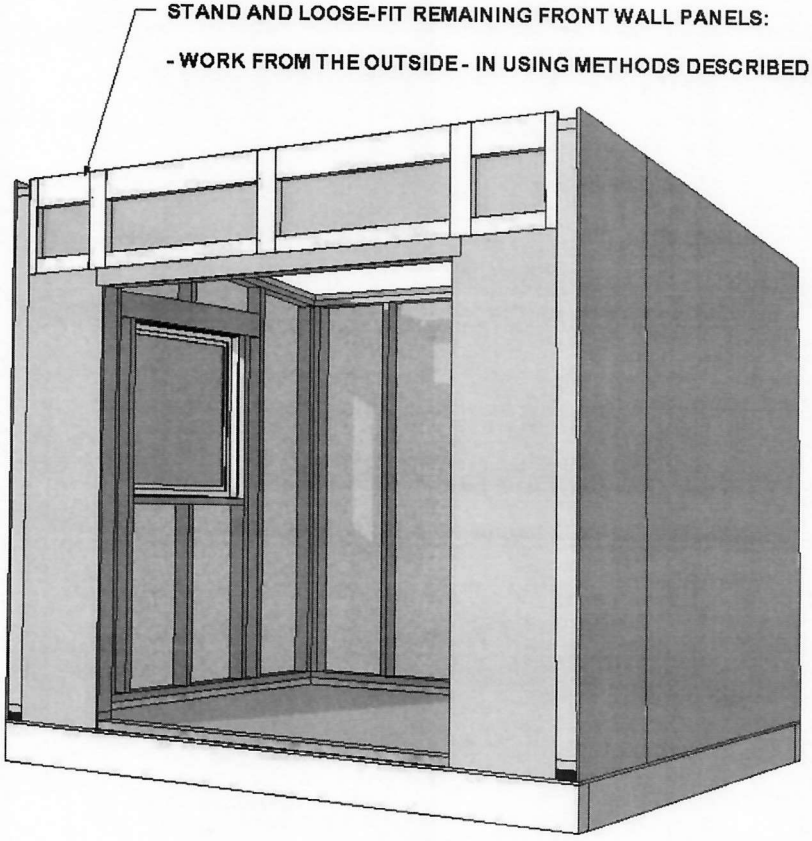

STAND AND LOOSE-FIT REMAINING FRONT WALL PANELS:
- WORK FROM THE OUTSIDE - IN USING METHODS DESCRIBED IN FIG 6a-8a

Fig 10a:

*USE CAUTION WITH SCREWS
TO AVOID DAMAGE TO GLASS

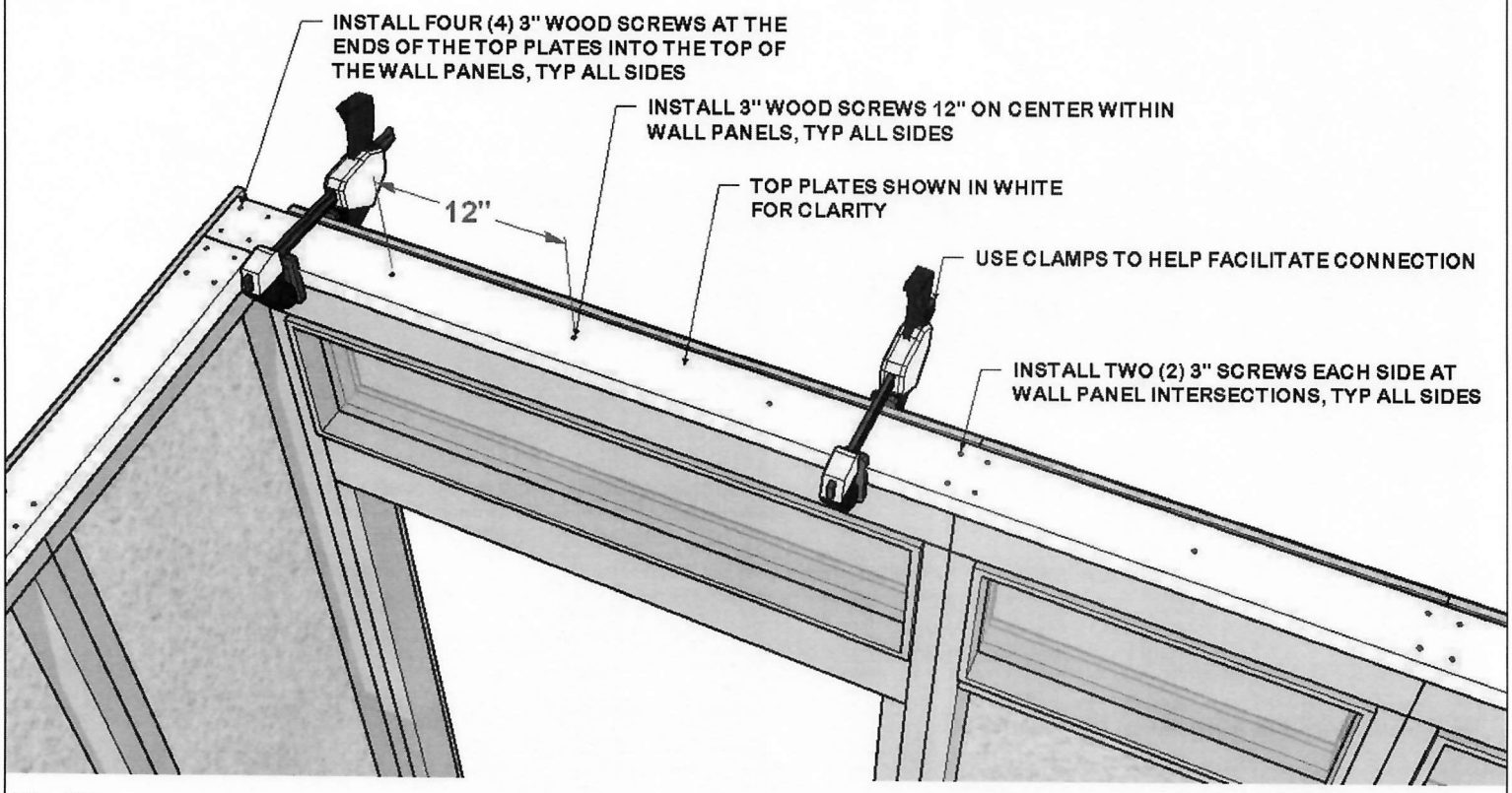
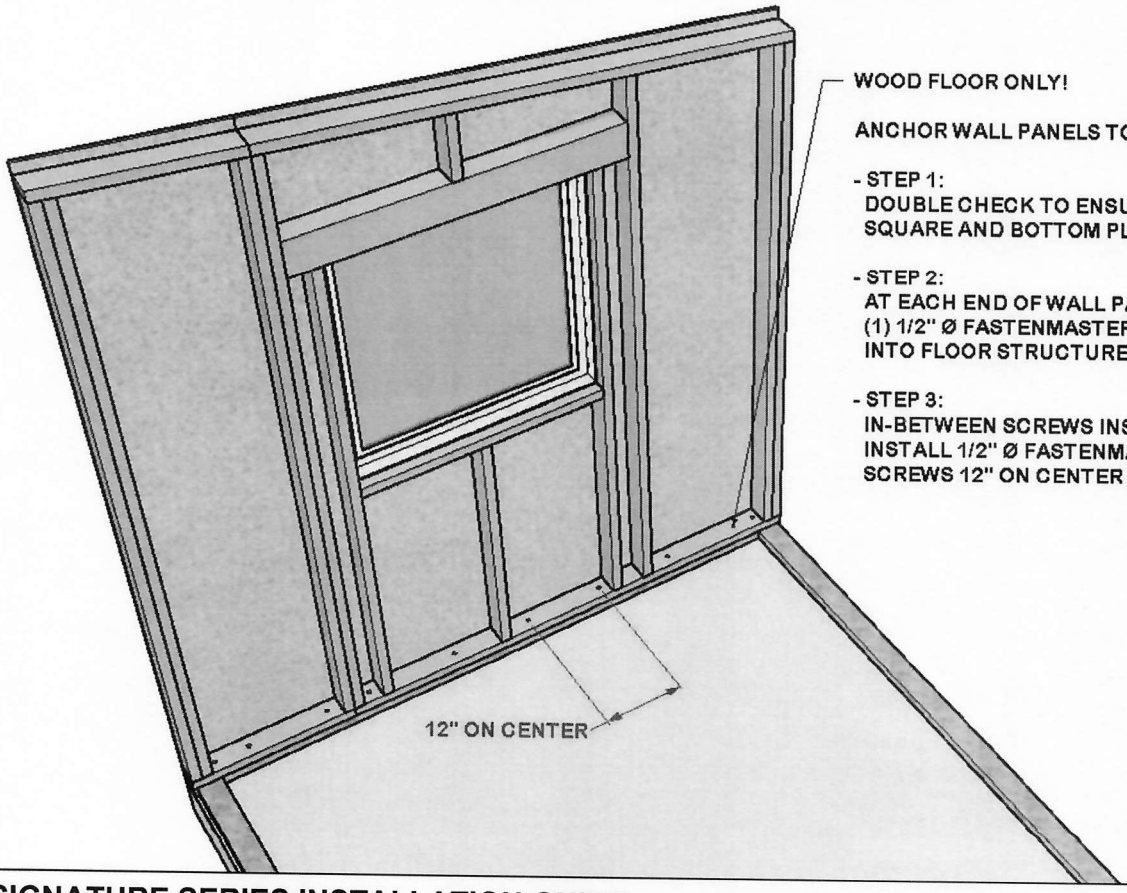


Fig 10b:



WOOD FLOOR ONLY!

ANCHOR WALL PANELS TO WOOD FLOOR:

- STEP 1:
DOUBLE CHECK TO ENSURE WALL PANELS ARE SQUARE AND BOTTOM PLATE IS FLUSH TO SILL PLATE

- STEP 2:
AT EACH END OF WALL PANEL INSTALL ONE (1) 1/2" Ø FASTENMASTER HEADLOK SCREW INTO FLOOR STRUCTURE

- STEP 3:
IN-BETWEEN SCREWS INSTALLED DURING STEP 2, INSTALL 1/2" Ø FASTENMASTER HEADLOK SCREWS 12" ON CENTER INTO FLOOR STRUCTURE

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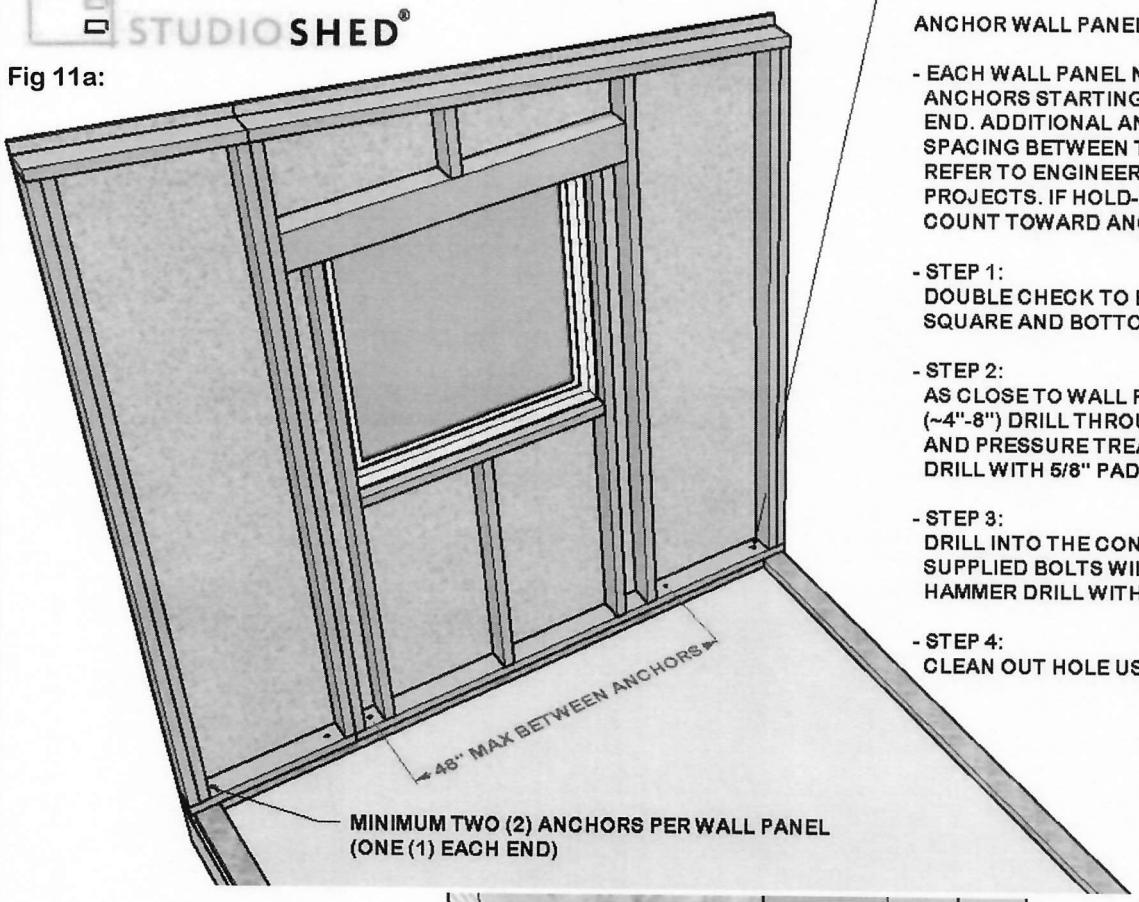
Fig 11a:



CONCRETE FLOOR ONLY!

ANCHOR WALL PANELS TO CONCRETE SLAB:

- EACH WALL PANEL NEEDS A MINIMUM OF TWO (2) ANCHORS STARTING WITH ONE (1) ANCHOR AT EACH END. ADDITIONAL ANCHORS ARE NEEDED IF THE SPACING BETWEEN THE ANCHORS EXCEEDS 48" REFER TO ENGINEERED PLANS FOR APPLICABLE PROJECTS. IF HOLD-DOWNS ARE REQUIRED, THESE COUNT TOWARD ANCHOR SPACING.

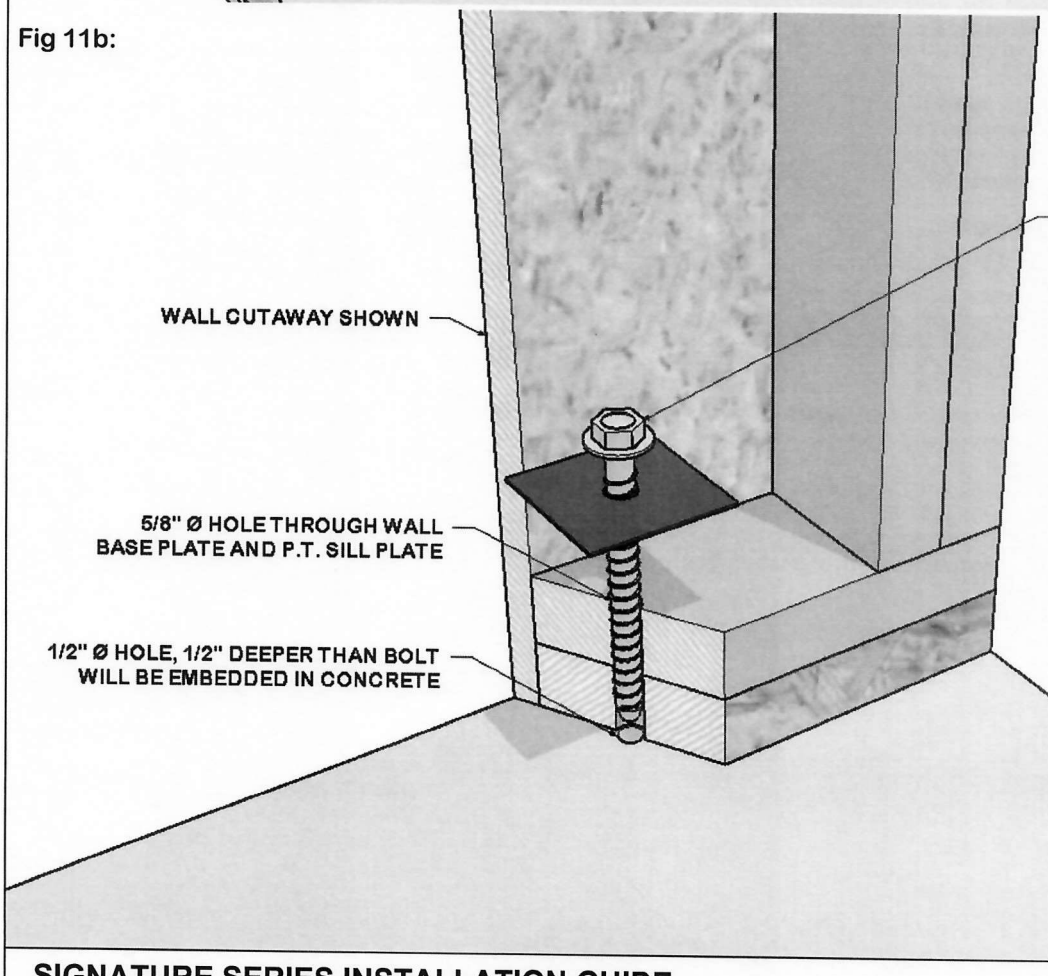
- STEP 1:
DOUBLE CHECK TO ENSURE WALL PANELS ARE SQUARE AND BOTTOM PLATE IS FLUSH TO SILL PLATE

- STEP 2:
AS CLOSE TO WALL PANEL ENDS AS POSSIBLE (~4"-8") DRILL THROUGH WALL PANEL BOTTOM PLATE AND PRESSURE TREATED SILL PLATE USING A POWER DRILL WITH 5/8" PADDLE BIT

- STEP 3:
DRILL INTO THE CONCRETE FLOOR 1/2" DEEPER THAN SUPPLIED BOLTS WILL BE EMBEDDED USING A ROTARY HAMMER DRILL WITH A 1/2" Ø MASONRY BIT

- STEP 4:
CLEAN OUT HOLE USING COMPRESSED AIR

Fig 11b:



CONCRETE FLOOR ONLY!

- STEP 5:
AT EACH HOLE INSTALL A SIMPSON STRONG-TIE TITEN HD BOLT AND 3"x3" SQUARE PLATE WASHER

- NOTE: FOR AREAS UNDER WINDOW STOPS (AT VISTALITES), USE A PADDLE BIT TO DRILL A HOLE THROUGH WINDOW STOP TO CREATE A VERTICAL PATH FOR THE BOLT.

Fig 12a:

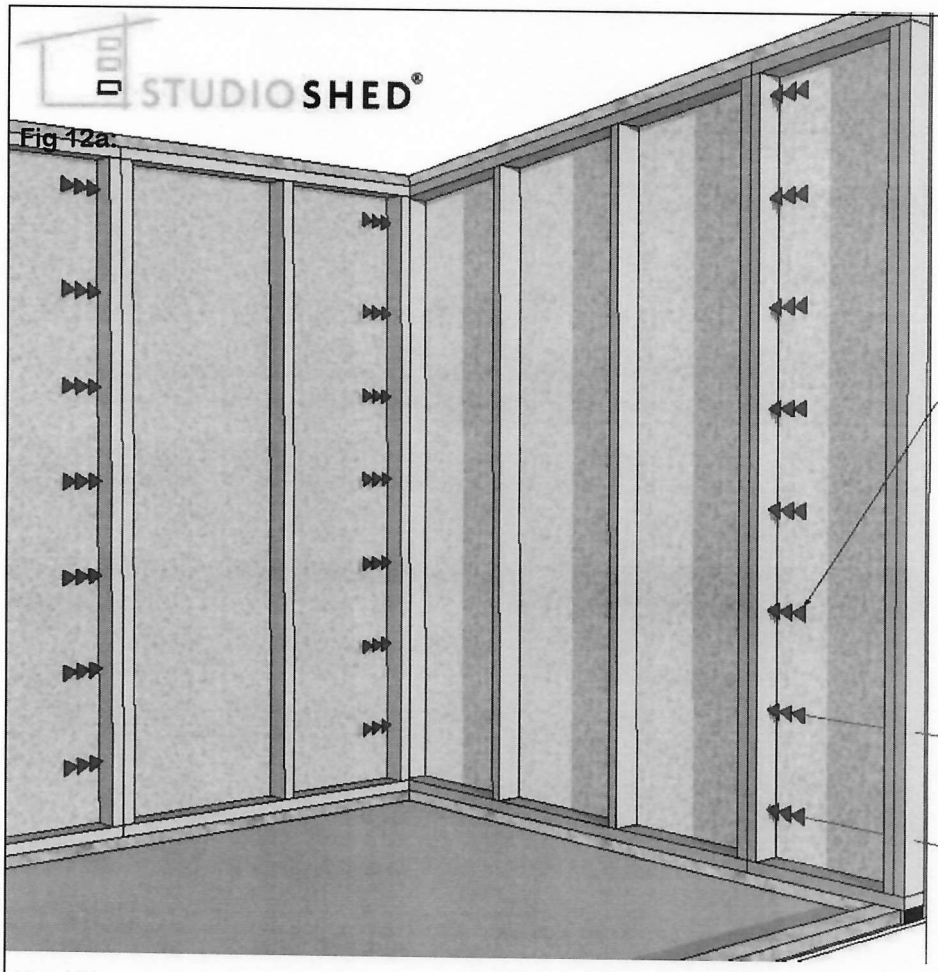


Fig 12b:

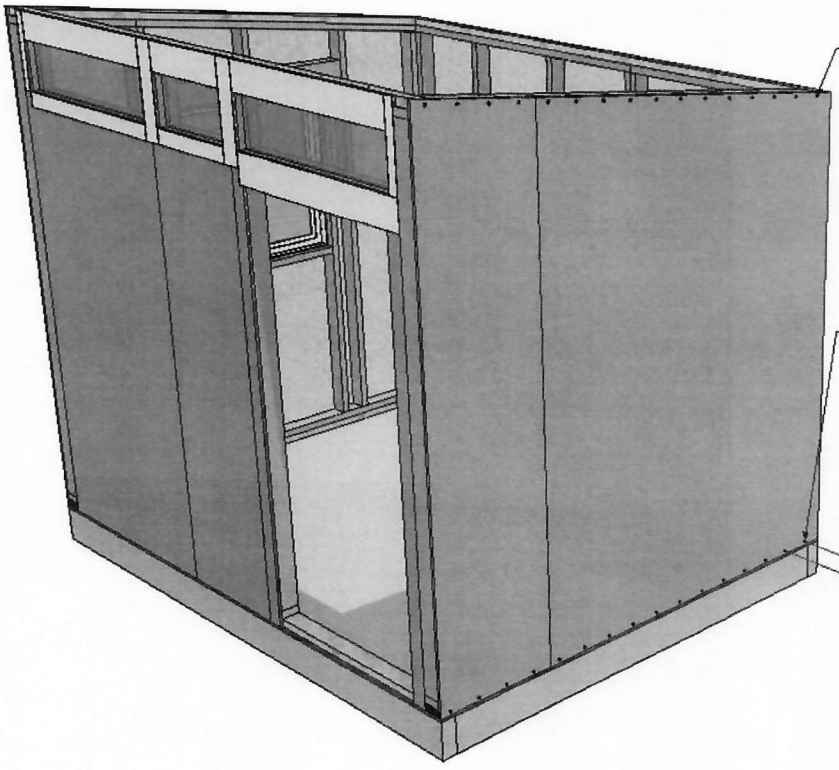
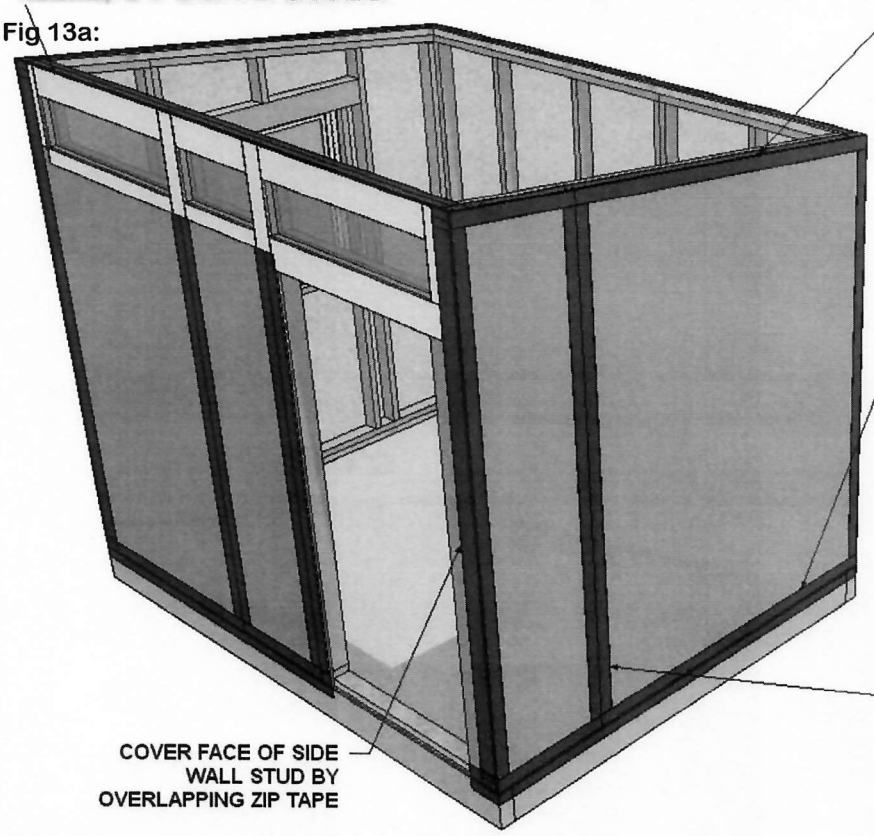


Fig 13a:



- STEP 3:
ALONG THE SIDE AND BACK WALLS, TAPE THE SEAM BETWEEN THE TOP OF THE WALL PANELS AND THE TOP PLATES BY WRAPPING THE TAPE OVER THE TOP OF THE WALLS (OVERLAP THE TAPE EQUALLY)

- *DO NOT WRAP TAPE ONTO METAL CLADDING ALONG FRONT WALLS

WEATHERSEAL THE SHED:

USE THE SUPPLIED ZIP SHEATHING TAPE

- STEP 1:
FOR WOOD FOUNDATIONS: START AT THE BASE OF THE SHED AND TAPE THE SEAM BETWEEN THE BOTTOM OF THE WALL PANELS AND THE WOOD FLOOR. BRING TAPE DOWN 1/2" BELOW BOTTOM OF FLOOR SHEATHING

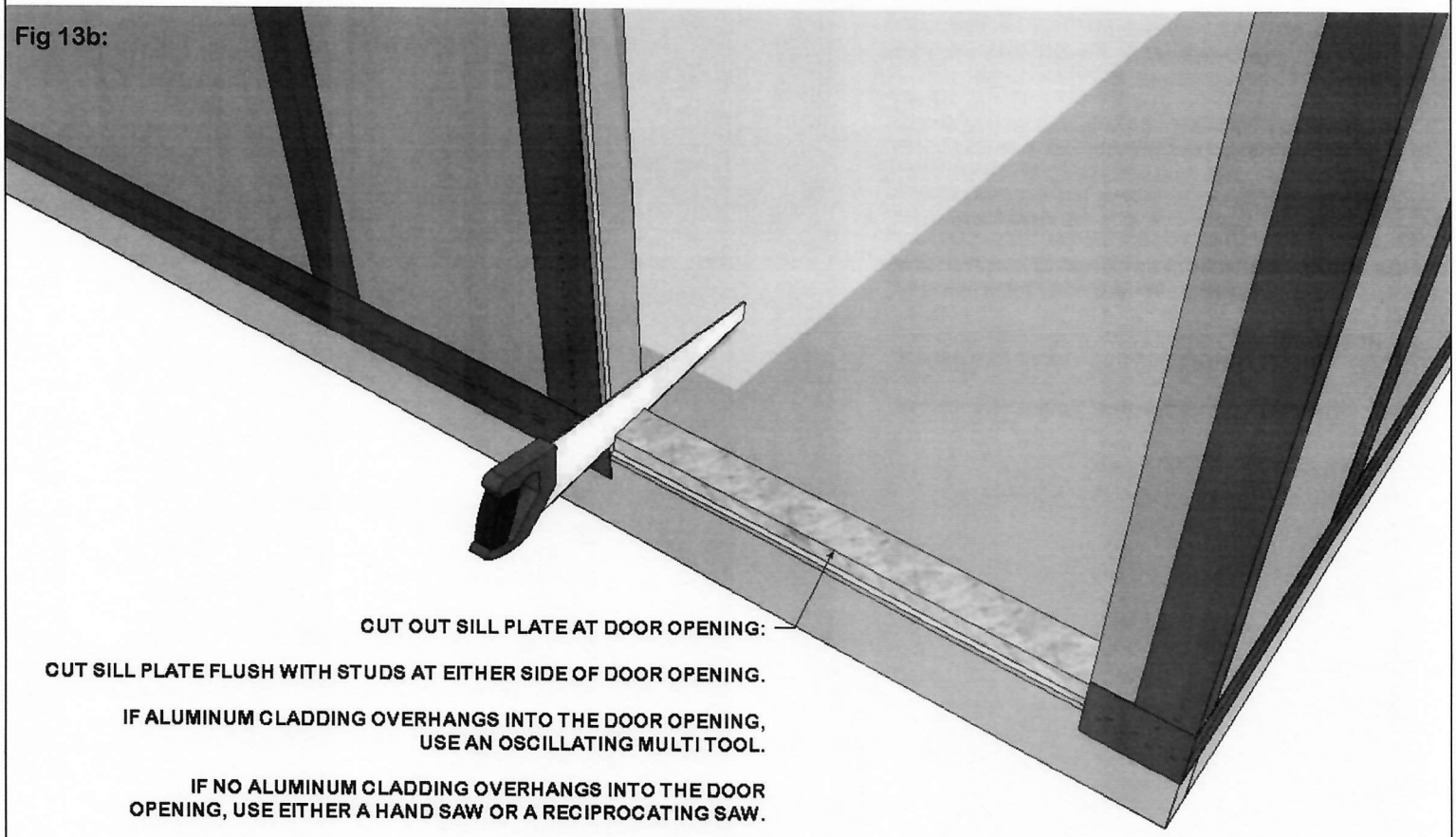
- IF BUILT ON A CONCRETE FOUNDATION, CAULK SEAM AT BASE WITH PROVIDED SILICONE

- STEP 2:
TAPE ALL VERTICAL WALL PANEL INTERSECTION SEAMS (OVERLAP THE TAPE EQUALLY)

- COVER ANY SMALL DAMAGED SECTIONS WITH TAPE

COVER FACE OF SIDE WALL STUD BY OVERLAPPING ZIP TAPE

Fig 13b:



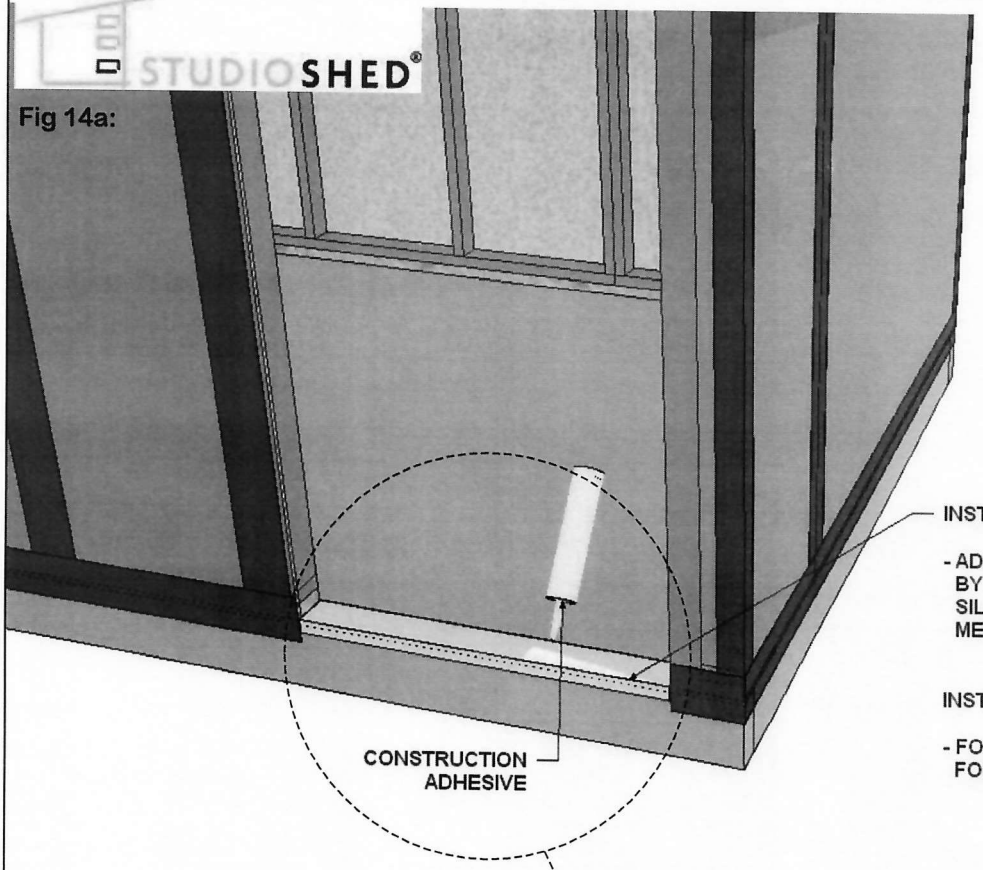
CUT OUT SILL PLATE AT DOOR OPENING:

CUT SILL PLATE FLUSH WITH STUDS AT EITHER SIDE OF DOOR OPENING.

IF ALUMINUM CLADDING OVERHANGS INTO THE DOOR OPENING, USE AN OSCILLATING MULTI TOOL.

IF NO ALUMINUM CLADDING OVERHANGS INTO THE DOOR OPENING, USE EITHER A HAND SAW OR A RECIPROCATING SAW.

Fig 14a:



INSTALL DOOR PAN (PROFILE 'K')

- ADHERE PAN TO THE BASE OF SHED BY APPLYING FOUR GENEROUS BEADS OF SILICONE LENGTHWISE ALONG METAL THE METAL. THE SHORT LEG WILL BE VERTICAL.

INSTALL DOOR

- FOLLOW DOOR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

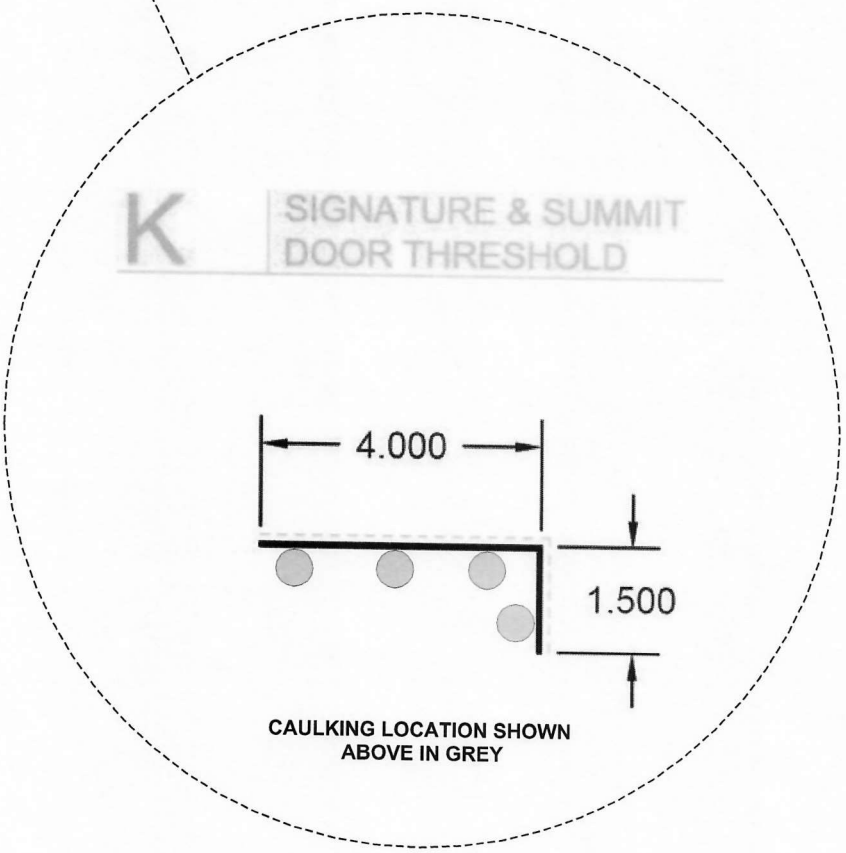


Fig 15a:

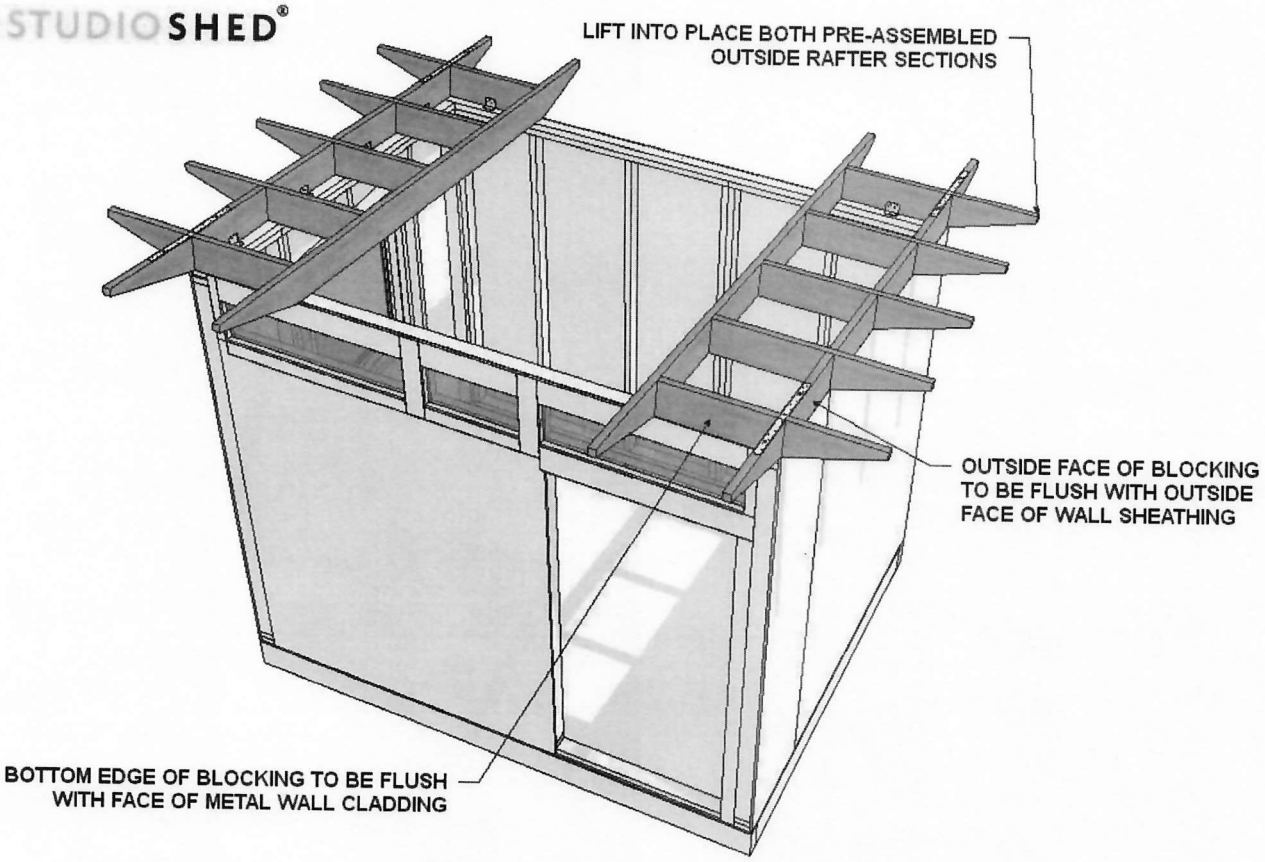


Fig 15b:

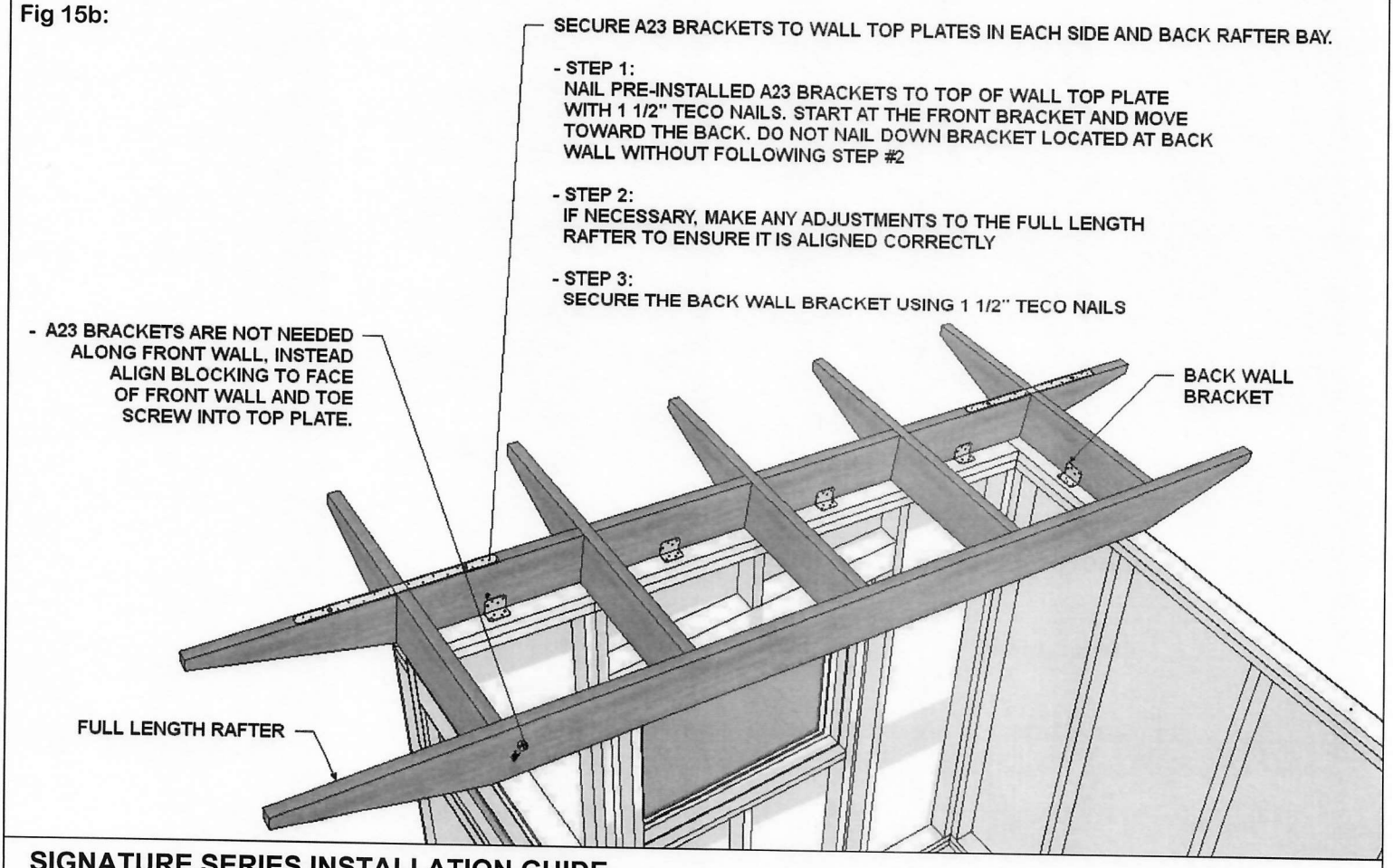


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Fig 16a:

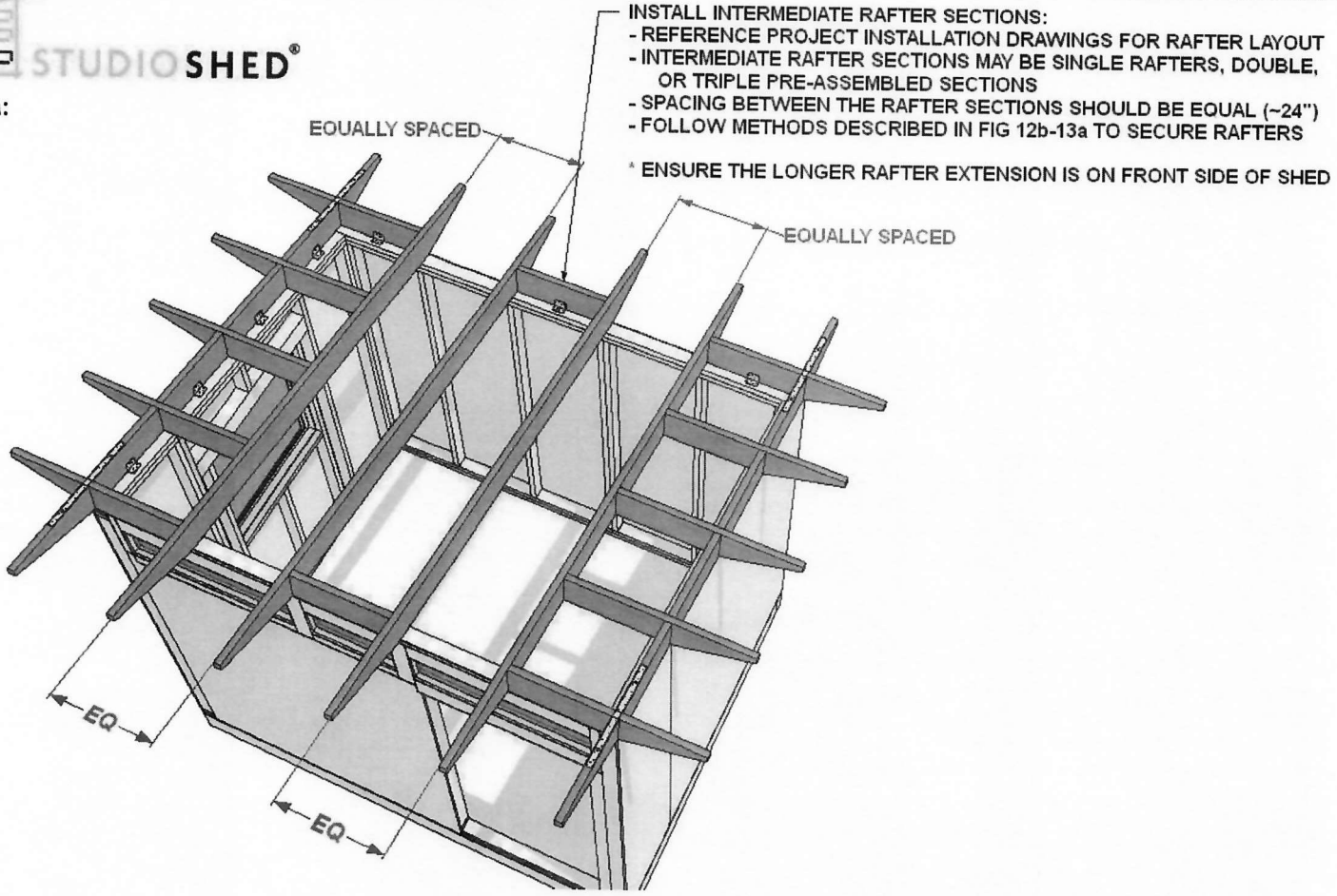

Fig 16b:

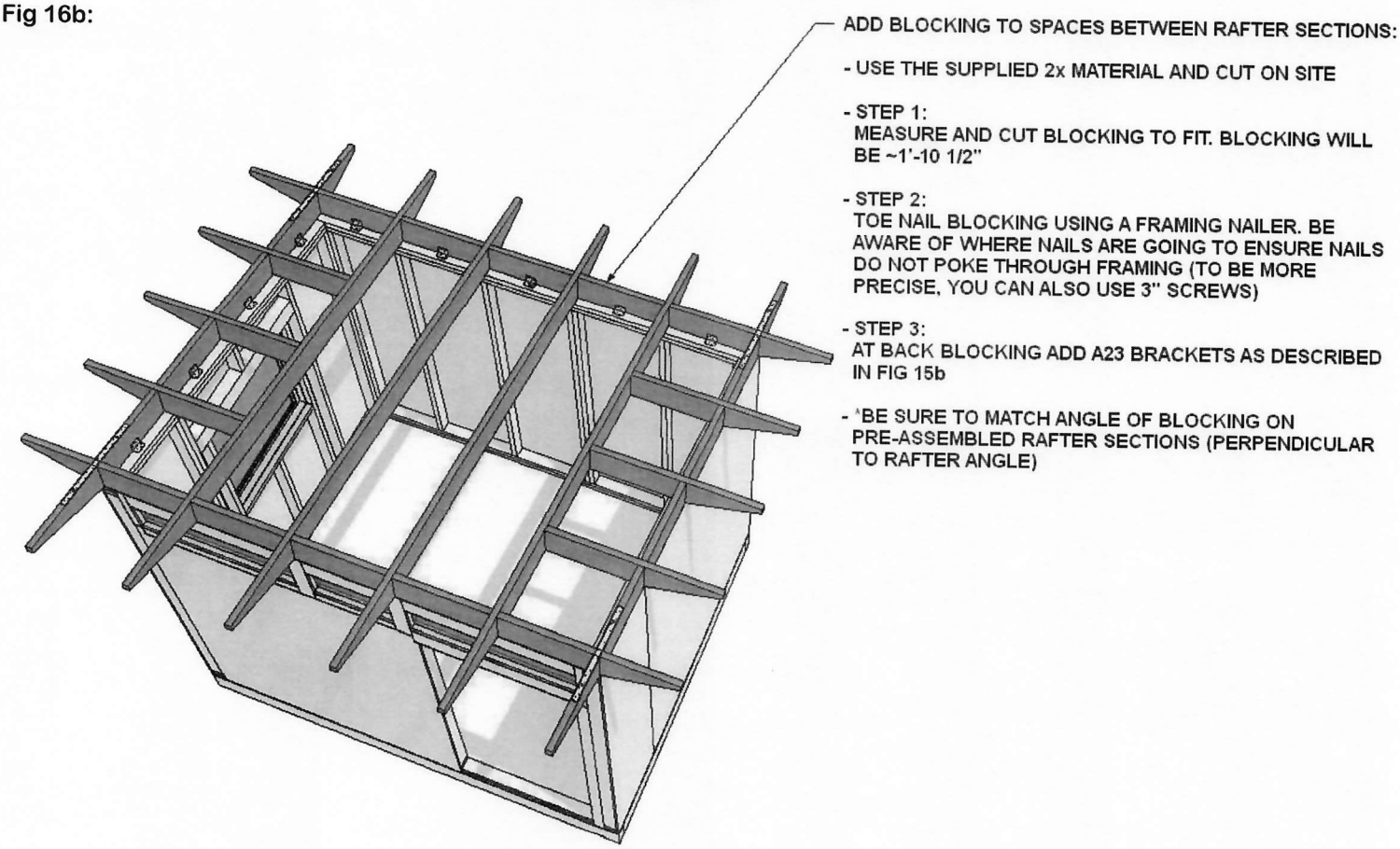

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Fig 17a:

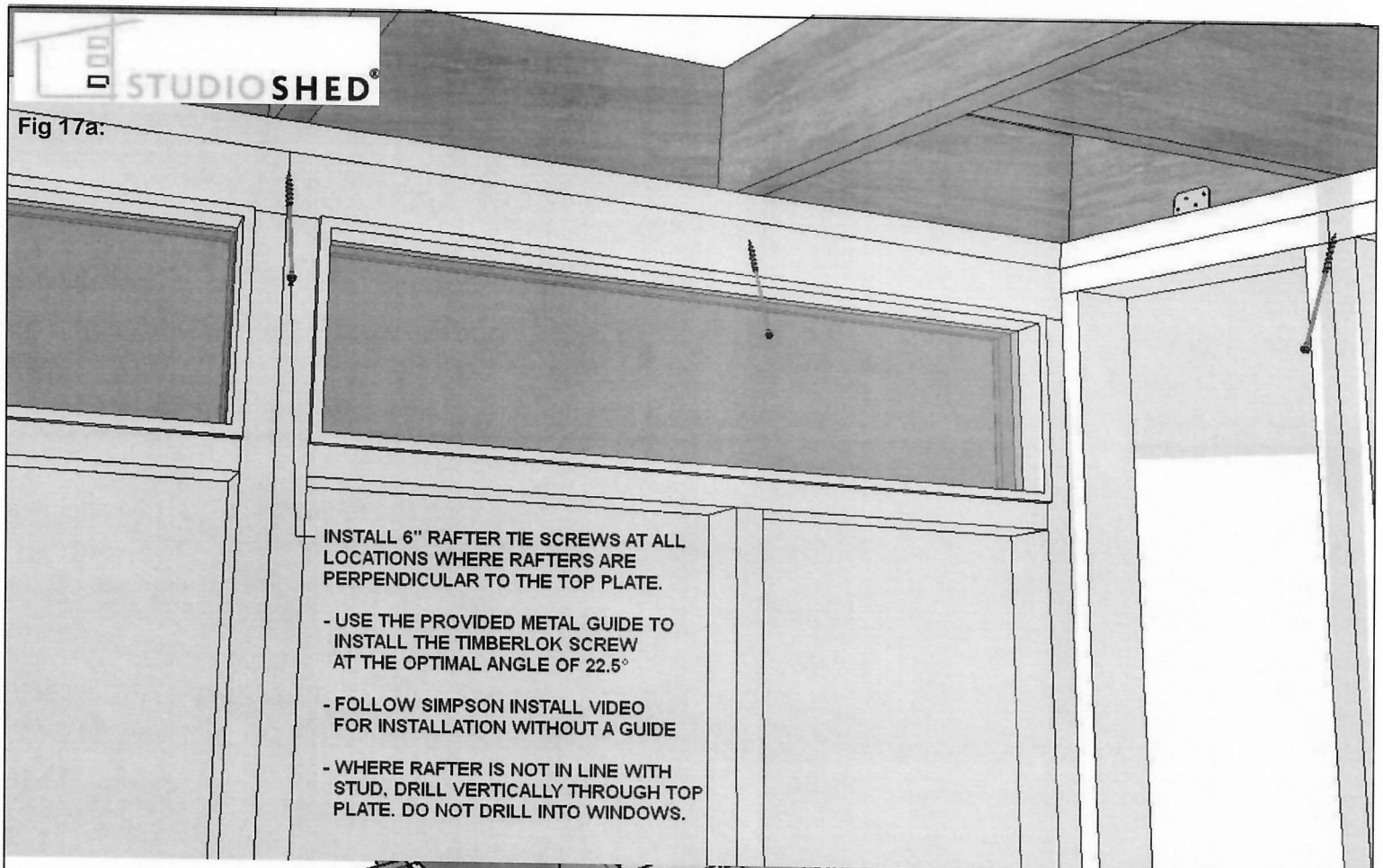


Fig 17b:

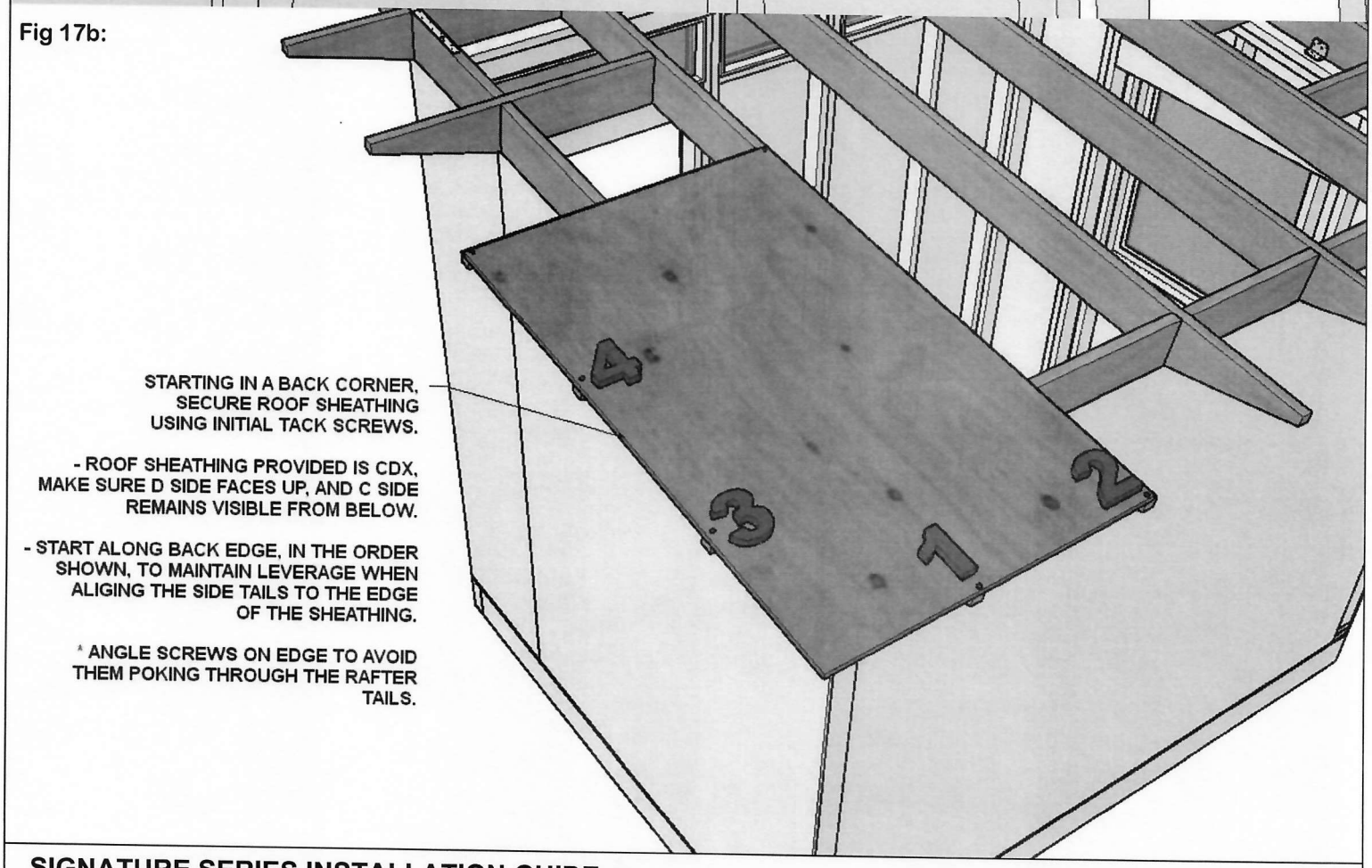
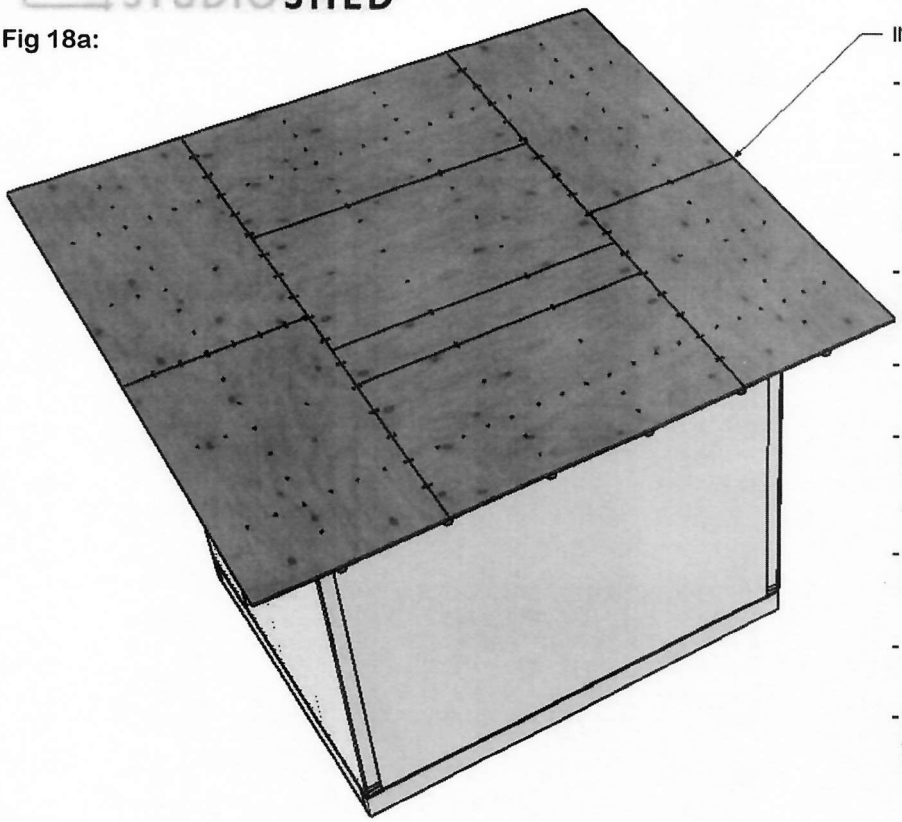


Fig 18a:



INSTALL ROOF SHEATHING:

- REFERENCE PROJECT INSTALLATION DRAWINGS FOR LAYOUT (PLYWOOD WILL BE LABELED)

- STEP 1:
  SECURE THE REST OF THE SHEATHING USING MINIMAL INITIAL TACK SCREWS AT TAILS IN CASE MINOR ADJUSTMENTS NEED TO BE MADE

- STEP 2:
  SNAP CHALK LINES CENTERED ON ALL FRAMING MEMBERS FOR NAILING LINES.

- *NOT ALL HORIZONTAL LINES RUN ALL THE WAY THROUGH.

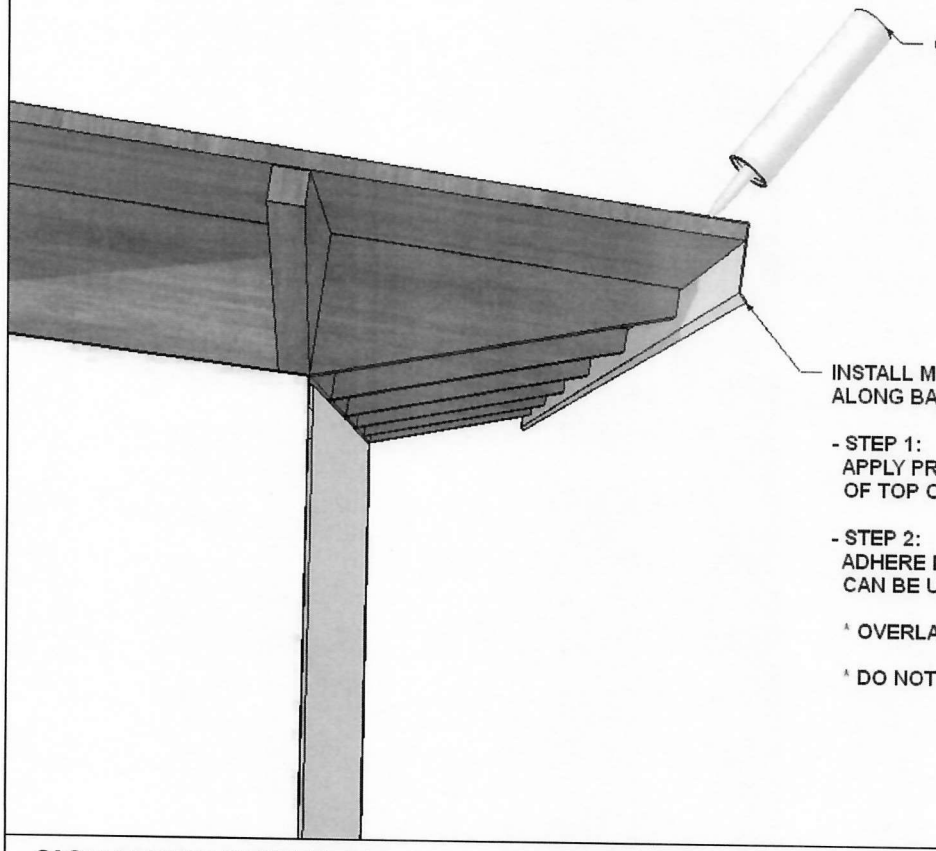
- STEP 3:
  NAIL SHEATHING TO RAFTERS USING 8d RING SHANK NAILS 6" ON CENTER AT BLOCKING, EDGES OF SHEETS, AND OVER EAVES, AS SHOWN.

- THEN 12" ON CENTER IN THE FIELD
  OF EACH PANEL. BE AWARE OF WHERE NAILS ARE GOING TO ENSURE NAILS DO NOT POKE THROUGH FRAMING

- *8d GUN NAILS NOT INCLUDED DUE TO VARIETY OF PNEUMATIC NAILERS

- ONCE ROOF SHEATHING IS SQUARE AND SECURE, TRIM ANY PROTRUDING RAFTER TAILS SO THEY ARE FLUSH WITH SHEATHING.

Fig 18b:



CONSTRUCTION ADHESIVE

INSTALL METAL PROFILE 'J' (BACK ROOF DRIP EDGE) ALONG BACK OF SHED:

- STEP 1:
  APPLY PROVIDED CONSTRUCTION ADHESIVE TO UNDERSIDE OF TOP OF DRIP EDGE

- STEP 2:
  ADHERE METAL TO TOP OF ROOF SHEATHING. CLAMPS CAN BE USED TO HELP FACILITATE CONNECTION

* OVERLAP METAL 2"-3" IF MULTIPLE SECTIONS ARE USED

* DO NOT USE PROFILE 'A' (FRONT DRIP EDGE)

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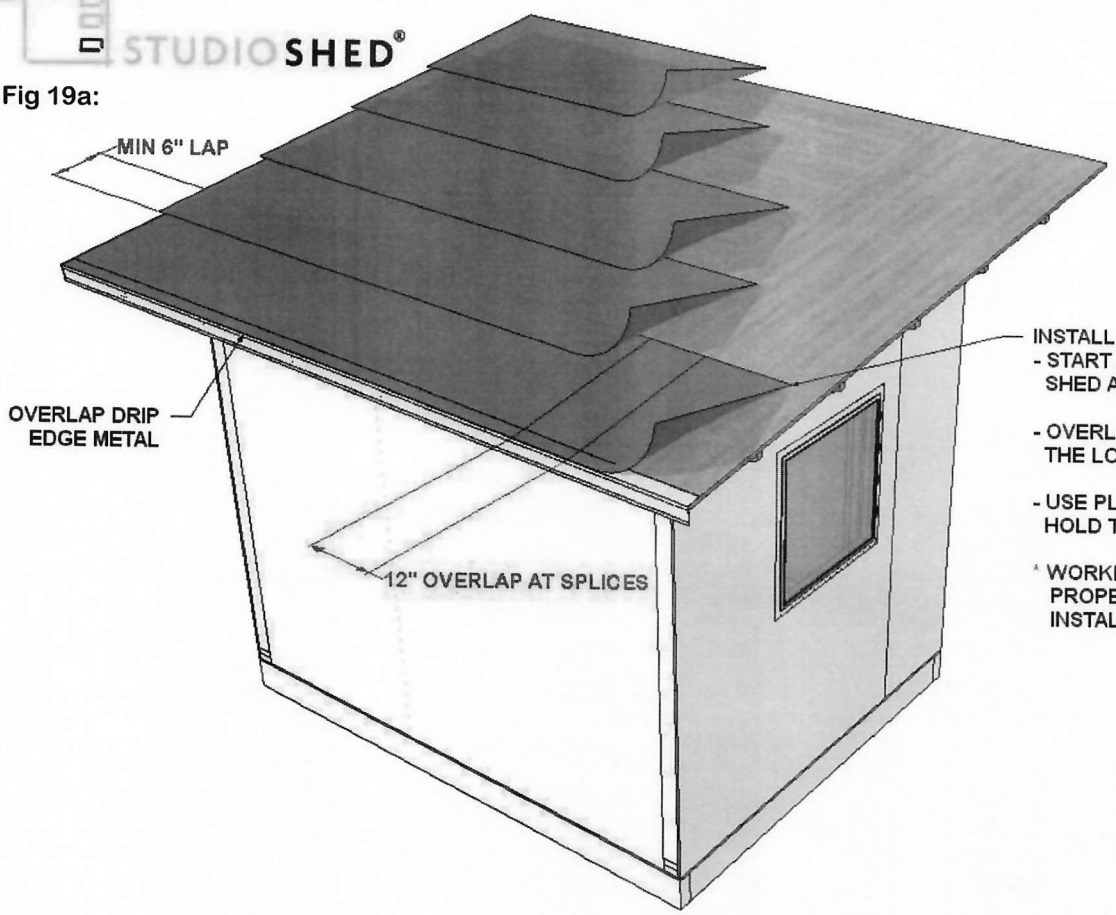
Fig 19a:



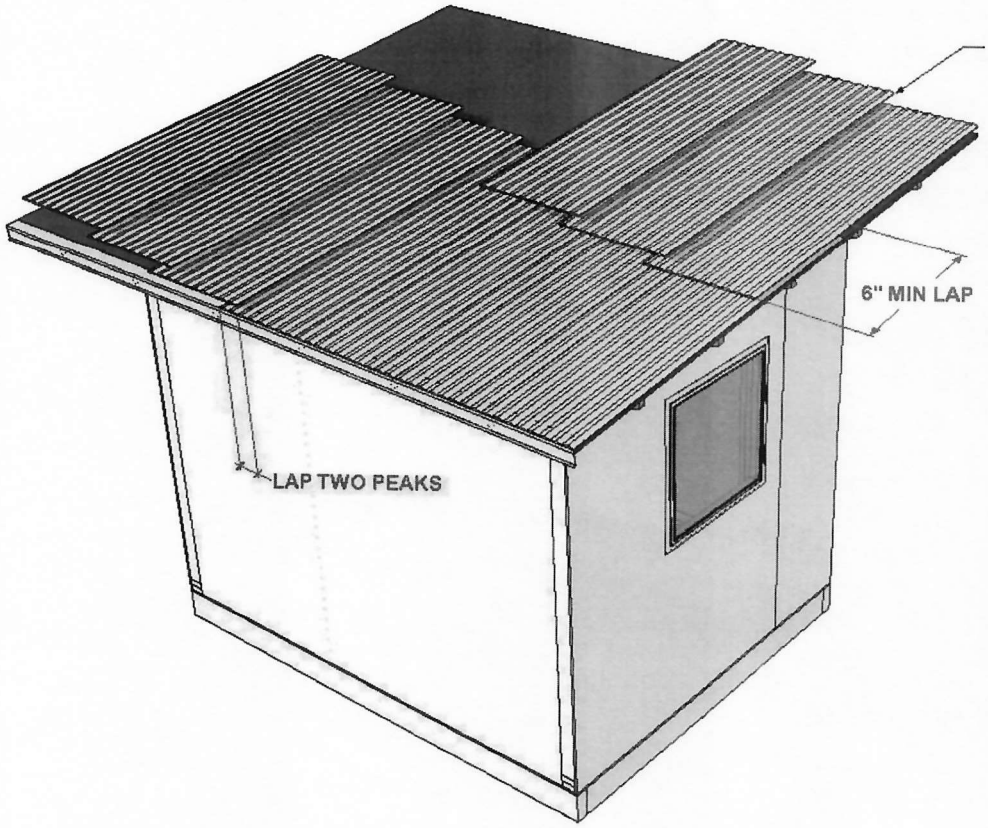
INSTALL ROOFING FELT:
- START AT THE LOW SIDE (BACK) OF THE SHED AND WORK TOWARD THE FRONT

- OVERLAP EACH ROW 6" OVER THE TOP OF THE LOWER ROW

- USE PLASTIC CAP NAILS OR STAPLES TO HOLD THE FELT IN PLACE

* WORKING LOW TO HIGH WILL ENSURE PROPER DRAINAGE ONCE THE ROOF IS INSTALLED

Fig 19b:



INSTALL CORRUGATED METAL ROOFING:

- STEP 1:
START AT A BACK CORNER AND WORK YOUR WAY TO THE OPPOSITE SIDE TO CREATE THE FIRST ROW. OVERLAP CORRESPONDING PANELS TWO PEAKS

- USING AN IMPACT DRIVER AND THE PROVIDED #12 x 3/4" NEOPRENE WASHER SCREWS. INSTALL (1) SCREW EVERY 4 VALLEYS (~12") ALONG BACK EDGE. BE SURE TO INSTALL SCREWS IN THE VALLEYS WHERE PANELS OVERLAP

* SEE NEXT PAGE FOR PROPER SCREW SIZE

* DO NOT GRID OUT METAL WITH FASTENERS AT THIS TIME

- STEP 2:
ADD THE FRONT ROW BY FOLLOWING METHODS IN STEP 1, ALIGNING METAL TO THE FRONT EDGE. INSTALL ONE ROW OF SCREWS INTO THE FRONT EDGE. EACH ROW MUST OVERLAP PREVIOUS ROW BY AT LEAST 6"

* DO NOT USE ANY FASTENERS OTHER THAN THE ROOF SCREWS WITH NEOPRENE WASHERS PROVIDED BY STUDIO SHED

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Fig 20a:

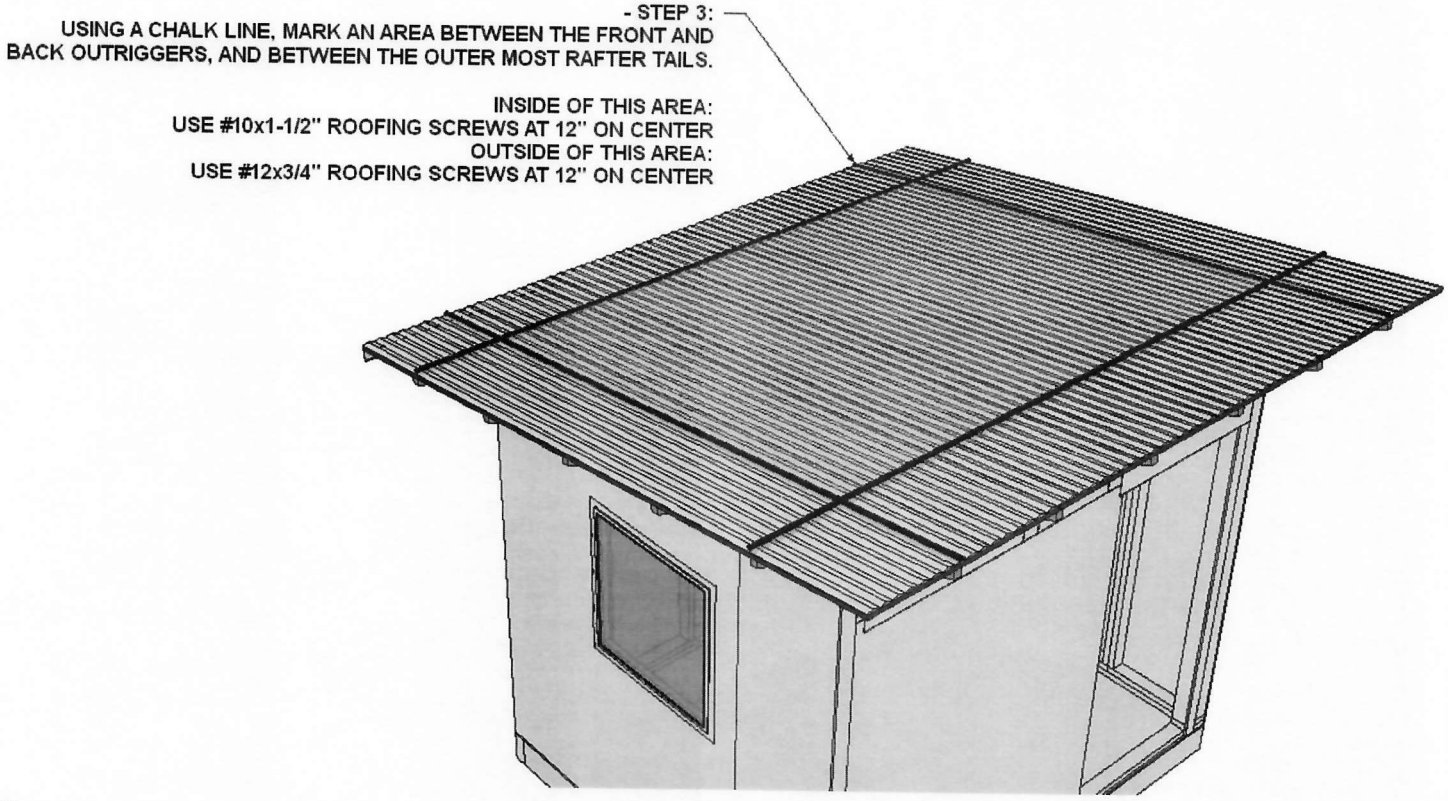

Fig 20b:

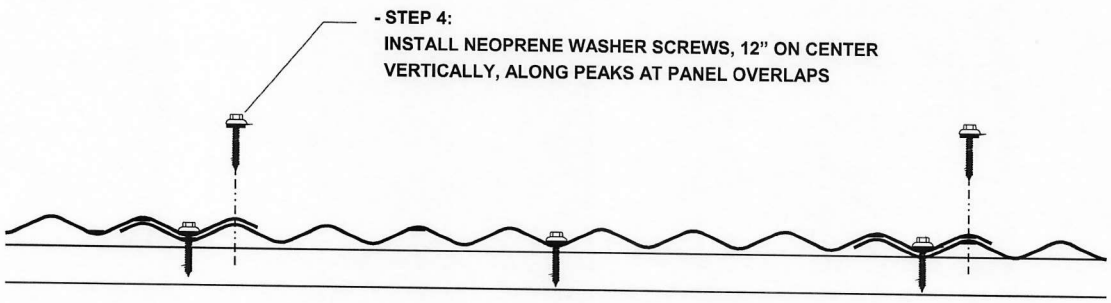

Fig 20c:

*DO NOT OVERTIGHTEN SCREWS!